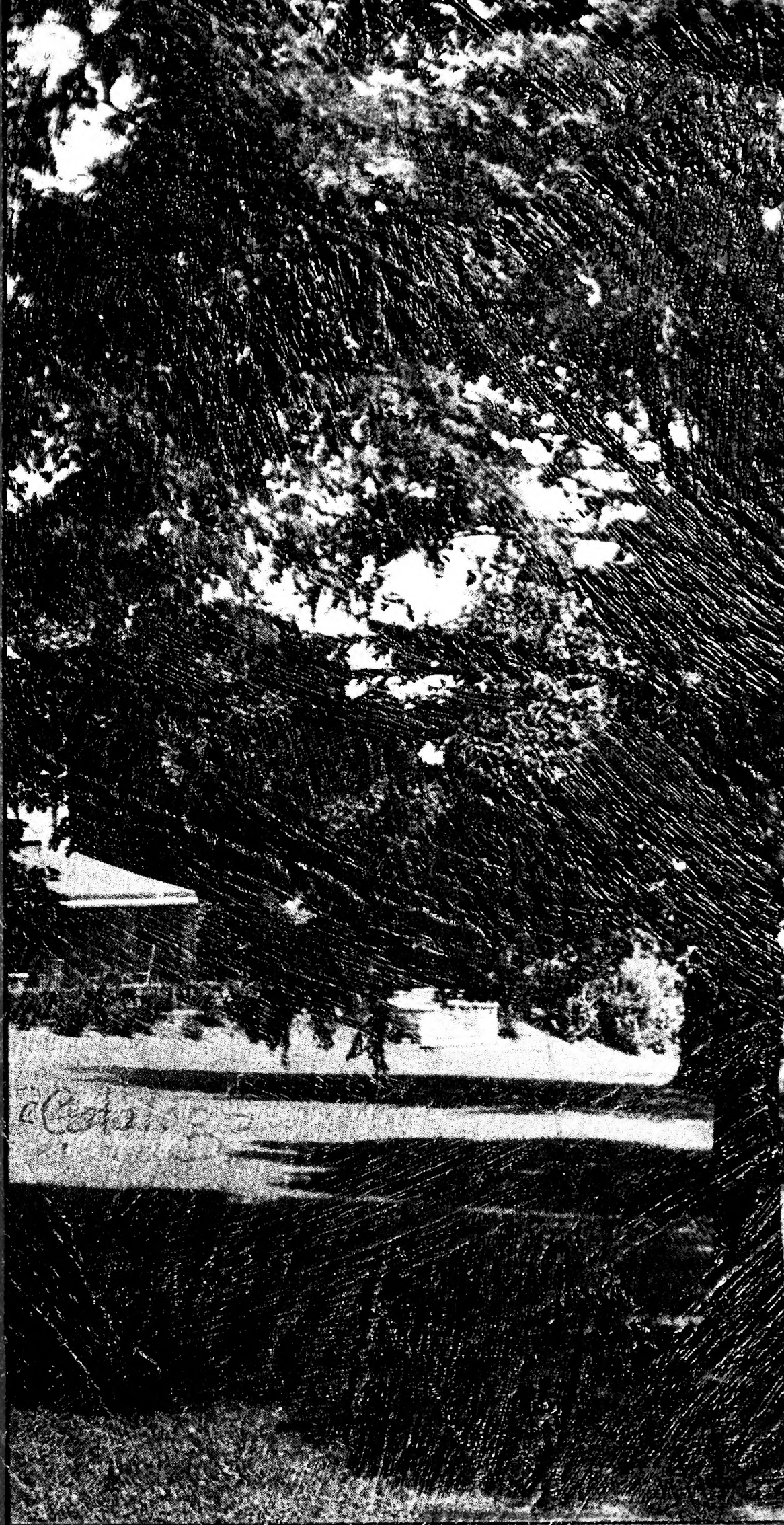


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Caldwell
Seed and
Supply
Company

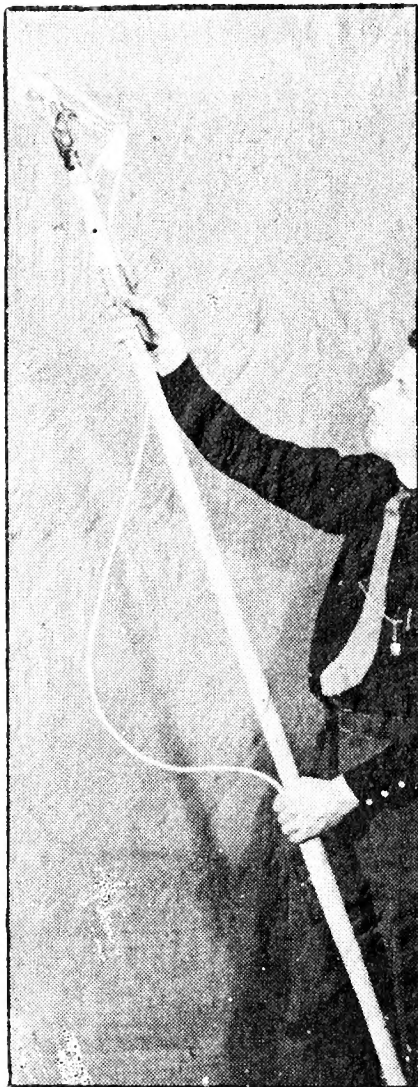
1940



Garden Aids

Introducing **PRUN-R-GRIP**

INCREASES THE EFFICIENCY OF THE TREE SURGEON



The Prun-R-Grip was designed to provide the tree surgeon with a simple and effective means of pulling the rope of the pole pruner without the necessity of releasing his operating hand from the pole to grasp the rope. It greatly increases the gripping power of the hand.

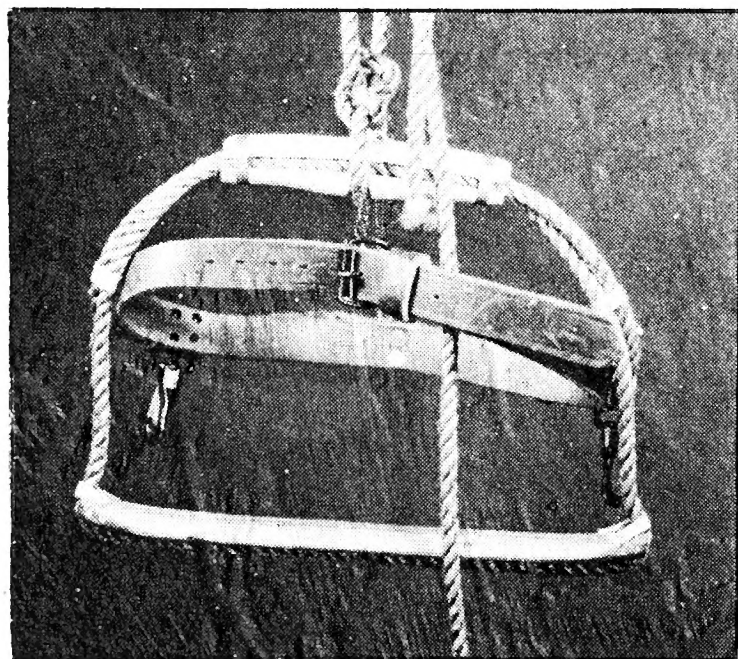
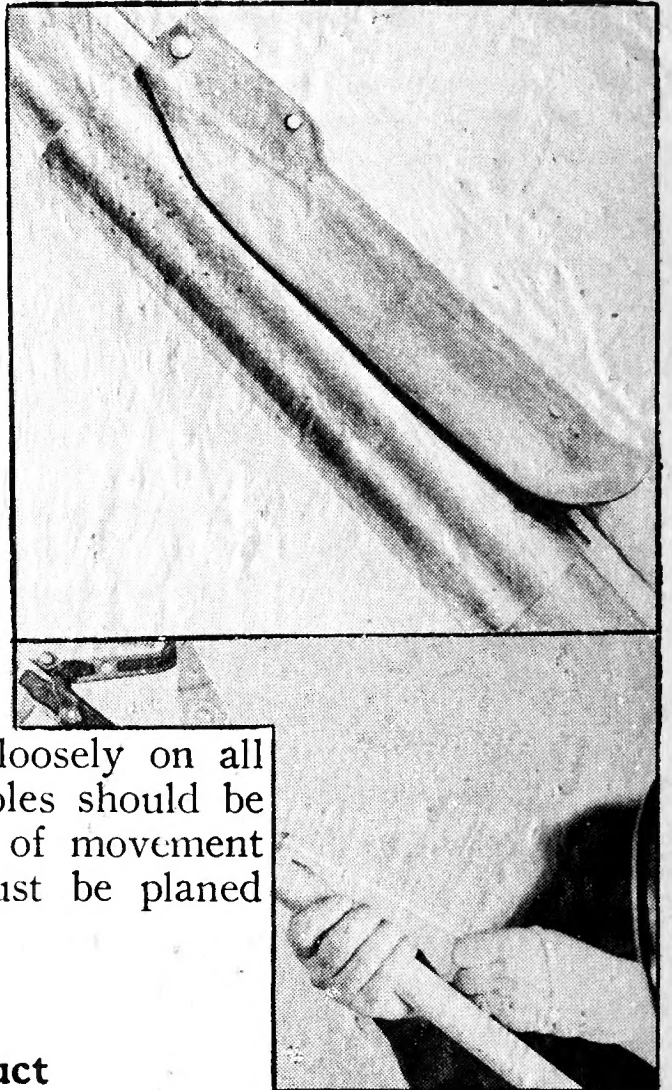
While all tree surgeons become expert in handling the pole pruner, even the most experienced will find the Prun-R-Grip a valuable addition to his equipment.

Adapted to Any Pruner Pole

The Prun-R-Grip is full $1\frac{3}{8}$ inches inside diameter and fits loosely on all finished pruner poles. Rough poles should be sanded slightly to give freedom of movement and corners of square poles must be planed off $\frac{1}{8}$ inch.

\$3

A Permalawn Product



Construction

The seat and spreader are of special hardwood construction, shaped and finished smoothly. The rope is $\frac{1}{2}$ inch New Bedford Maritime 3 strand Manila and the belt is of highest quality leather, with first grade snaps and buckles fully sewed and riveted throughout. Price, \$8.00. (Special sizes made to measure at no extra charge if order accompanied by payment.)

SAFE-T-SEAT

WORK WITH SAFETY AND COMFORT

When a life is suspended high in the air every possible precaution of safety must be employed.

The Safe-T-Seat embodies the dual safety feature of a rope around the waist and a second under the seat, each unit with an ample safety factor in case the other fails.

Increased Efficiency

The Safe-T-Seat is designed to give complete freedom of movement of the legs and such complete and balanced support of the body that the hands are always free for work. The seat and the spreader fit closely to the body and do not interfere with the freedom of movement in any way. The entire seat is fully adjustable.

Complete Comfort

The seat of the Safe-T-Seat is $3\frac{1}{2}$ inches wide and 17 inches long, providing entire comfort for hours at a time. There are no slings encircling the legs to cut off circulation and no possibility of pinching. The spreader eliminates the pressure of the rope against the legs. The Safe-T-Seat weighs less than three pounds and can be worn comfortably all day.

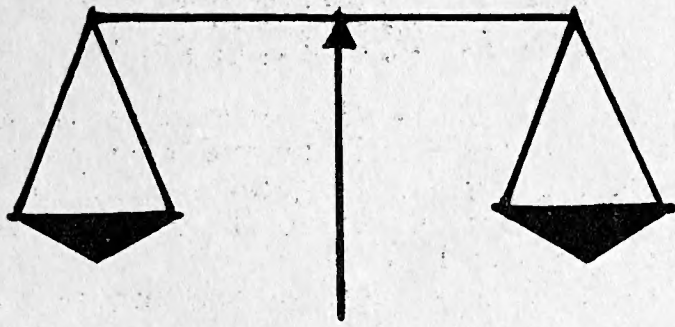
A Permalawn Product

Caldwell Seed and Supply Company

1618-22 PAYNE STREET, EVANSTON, ILLINOIS

For Local Orders Phone University 2260

Cooperate With Nature



A SCIENTIFIC SERVICE

Occasionally a beautiful lawn or garden may be produced without any definite program of maintenance. But generally the maintenance program, to be effective, must be adjusted to the growth conditions existing, supplementing favorable conditions and correcting those which are not conducive to best results.

We offer our patrons the most complete and effective Garden Service available, Under the direction of Dr. J. F. Fonder, soil technologist and plant physiologist, with years of experience in analyzing growth conditions and preparing efficient maintenance programs, this service provides a really scientific approach to your garden problems. It can supply a logical working basis and guide for the home owner, the professional gardener, the landscape contractor, the professional landscape architect, or the park superintendent.

A COMPLETE SERVICE

1. An inspection and analysis of existing growth conditions as concerns shading, ventilation, drainage, and the like.
2. A soil survey and analysis to determine the areas involved, differences in soil type, and the supply of available plant food in the soil in different locations.
3. The submission of a suggested program of maintenance covering an explanation of adverse growth factors with possible remedial measures.

A follow-up service to adjust the program to changing conditions.

During the past six years this service has aided many engaged in maintenance and construction work to secure better lawns and gardens and to avoid wasted effort and needless expenditures. It is offered to our patrons to assist them in securing the best possible results from our products. Those customers too far removed from Evanston to make an inspection possible, or where the program will not justify an inspection will, upon request, be sent full instructions for submitting soil samples and other information needed in formulating a maintenance program.

Since our business is being built upon the foundation of Better Service to our customers it follows that the products we sell must be good or our Service will mean nothing. Careful thought and observation, guided by a scientific appreciation of the fundamentals required in garden supplies of various types, govern us in the selection of the products we recommend. We believe this can mean much to our patrons.

Better Bred Vegetable Seeds

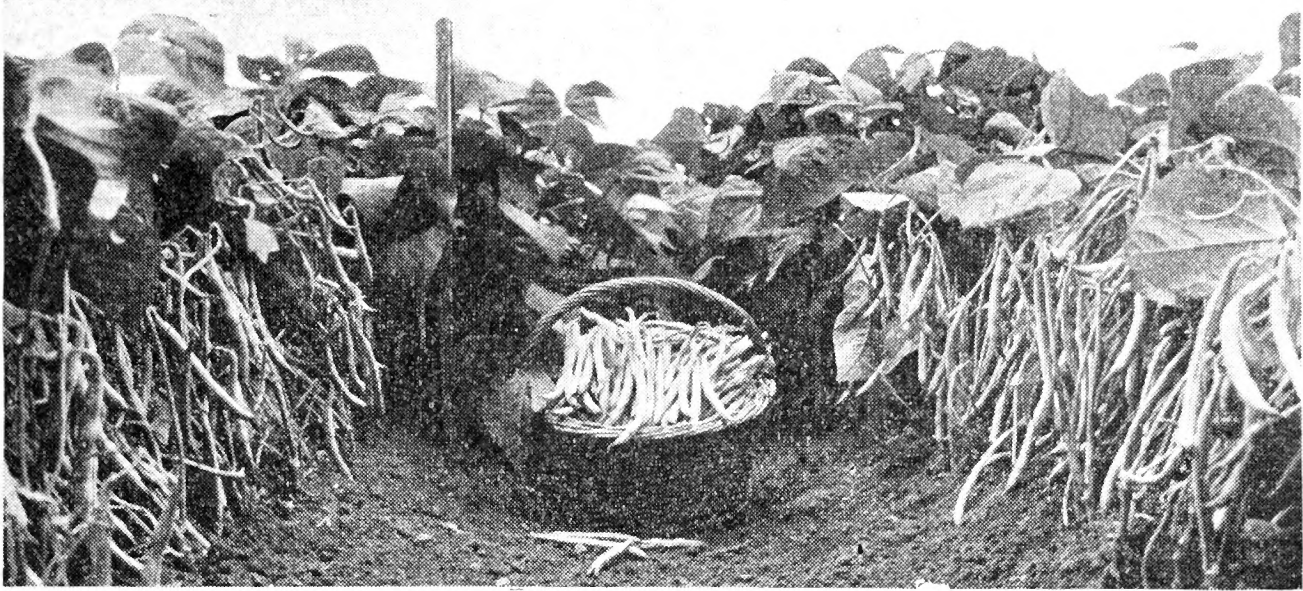
ASGROW ALL-AMERICA RECORD

Our vegetable seeds are grown for us by the Associated Seed Growers, Inc., New Haven, Conn., breeders and growers with stations in all of the best vegetable producing areas in the country. This firm has been producing superior vegetable seeds for eighty years and is a leader in the breeding of new and improved strains. In addition to the many thousands of acres planted for seed production, one thousand acres of land are devoted to breeding purposes alone. The All-America Record of this firm is proof of its success in originating and breeding better vegetables.

Asgrow Stringless Green Pod Bean	Gold Medal	1933
Asgrow Black Valentine Bean	Silver Medal	1933
Asgrow Wonder Beet	Gold Medal	1934
Asgrow Canner Beet	Silver Medal	1936
Imperator Carrot	Silver Medal	1933
Golden Colonel Corn	Silver Medal	1936
Stowell's Evergreen Hybrid Corn	Bronze Medal	1934
Clark's Special Cucumber	Silver Medal	1933
Teton Pea	Silver Medal	1937
Ruby King Pepper, Asgrow Strain	Bronze Medal	1935
Scarlet Dawn Tomato	Gold Medal	1935
Cardinal Tomato	Honorable Mention	1938
Baby Potato Lima Bean	Silver Medal	1939
Ioana Hybrid Corn	Bronze Medal	1939

PLANTING TABLE

SPECIES	Approx. seed for 100 ft. row	Inches between rows	Inches apart in row	Planting depth inches
Beans, Bush	1 lb.	24-30	3-4	1½
Beans, Pole	½ lb.	36-48	12	1½
Beet	2 ozs.	14-24	3-4	½
Broccoli	¼ oz.	24-30	16-20	½
Cabbage	¼ oz.	24-30	16-20	½
Cantaloupe	½ oz.	50-60	36-60	1
Carrot	1 oz.	14-24	2-3	½
Cauliflower	¼ oz.	24-30	16-20	½
Celery	¼ oz.	24-42	4-5	⅛
Corn, Sweet	8 ozs.	30-42	9-12	1
Cucumber	1 oz.	4-5 ft.	18-36	¾
Egg Plant	¼ oz.	3-4 ft.	30-36	½
Endive	1 oz.	18-24	8-10	¼
Kale	¼ oz.	24-36	15-20	½
Kohl Rabi	½ oz.	18-24	6	½
Lettuce	½ oz.	16-24	10-14	¼
Muskmelon	½ oz.	60-70	36-60	1
Mustard	½ oz.	18-20	6-9	½
Okra	2 ozs.	30-42	15	1
Onion	1 oz.	15-30	3-4	¾
Parsley	½ oz.	12-18	3-6	¼
Parsnip	½ oz.	18-24	3-4	½
Peas	2 lbs.	24-36	1-2	1
Pepper	¼ oz.	30	24-30	½
Pumpkin	2 ozs.	8-10 ft.	5-6 ft.	1
Radish	1 oz.	12-15	1-2	½
Rutabaga	1 oz.	18-24	4-8	½
Spinach	2 ozs.	10-24	5-6	¾
Squash, Bush	2 ozs.	4-5 ft.	3 ft.	1
Squash, Vine	1 oz.	6-8 ft.	5-6 ft.	1
Swiss Chard	1 oz.	18-24	10-12	1
Tomato	¼ oz.	3-4 ft.	3-4 ft.	½
Turnip	½ oz.	12-24	3-7	¼
Watermelon	½ oz.	8-10 ft.	8 ft.	¾



Asgrow Stringless Green Pod Beans

BEANS

Plant only in warm, well-prepared soil, about 4 in. apart, 1½ in. to 2 in. deep. Cultivate only before blooming and never when wet. Pick frequently as pods reach maturity, to get full yield. Plant a succession every two weeks to insure supply throughout the season. One pound plants 100 ft. of row.

Note: The abbreviation Pkt. wherever used refers to "Estate Packet" introduced by us this year. The Estate Packet contains about one third the quantity of seed in the smallest weight unit given.

DWARF OR BUSH

GREEN PODDED: pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.15.

***Asgrow Stringless Green Pod:** 53 days. All-America Gold Medal Award. The pods are entirely stringless and fiberless, meaty and richly flavored, attractive dark green in color. The plants are hardy, strong, and dependably productive even under trying weather conditions.

***Asgrow Black Valentine (Stringless):** 49 days. All-America Award 1933. Like the old Black Valentine in every way except that it is completely free from strings. Handsome oval dark green pods which keep their color and firmness well. Plants are large, erect, and prolific. An excellent variety for home and market garden when an early, very hardy bean of fine quality is desired.

***Burpee's Stringless Green Pod:** 52 days. Asgrow originated. The large, bushy plants produce plenty of rich, round, green pods about 5½ inches long, stringless and of fine flavor.

Bountiful: 49 days. Popular early variety with light green flat-oval stringless pods, 6½ to 7 inches long.

Stringless Red Valentine: 54 days. A stringless strain of Red Valentine.

DRY SHELLED VARIETIES: pkt., 10c; 1 lb., 30c; 5 lbs., \$1.00.

Red Kidney: 95 days. For dry beans of fine quality.

White Marrow: 100 days. Good sized beans for baking.

White Navy (or White Pea): 90 days. Small white beans. Extensively used for baked beans

*Varieties which are considered especially desirable.

WAX PODDED: pkt., 10c; ½ lb., 25c; 1 lb., 40c; 5 lbs., \$1.35. (Except as noted).

***Pencil Pod:** 55 days. Asgrow originated. Generally regarded as the finest wax bean either for the market or home garden. Pods are a beautiful golden yellow, 6 to 7 inches long, round and crease backed, fleshy, brittle, stringless, fiberless, tender, and sweet; grown abundantly on stocky, vigorous plants. An early variety of the highest quality and productive over a long period. Pkg., 10c; ½ lb., 25c; 1 lb., 40c; 5 lbs., \$1.25.

***Sure Crop (Bountiful Wax):** 53 days. Asgrow originated. Thick-flat, golden yellow pods, 6 to 7 inches long, stringless and brittle, meaty and well-flavored. Plants are strong, probably the hardiest of all wax pod beans, fighting both adverse growing conditions and disease. A heavy yielder with a long picking season.

Improved Golden Wax: 51 days. Popular in home gardens because of its rich flavor and resistance to disease. Straight, thick-flat, stringless, creamy-yellow pods.

Improved Prolific Black Wax: 52 days. Asgrow originated. Very prolific; pods golden yellow, round, fleshy, stringless, fiberless, and of fine quality.

LIMA BEANS: pkt., 10c; ½ lb., 25c; 1 lb., 45c; 5 lbs., \$1.50: (Except as noted).

***Fordhook Bush:** 75 days. A potato Lima. The plants are strong and vigorous, standing erect and bearing clusters of thick, fibrous pods, each with 3 to 5 large, oval beans of rich flavor.

***Henderson's Bush:** 65 days. A Baby Lima, known in the South as Butter Bean. Early, finest quality. Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.25.

Burpee's Bush: 77 days. A prolific and popular variety of the large seeded type with 3 to 4 broad, flat beans to the pod.

Improved Burpee's Bush. A few days earlier than Burpee's, larger and more prolific. Clusters of 5 or 6 pods, averaging 4 beans each of excellent quality.

Baby Potato Lima Bean. All America Silver Medal 1939. Pkt., 20c; ½ lb., 45c; 1 lb., 80c. Seeds are small but thick, of bright green color when fresh, and similar in flavor to Fordhook. Plants are very prolific and more vigorous and robust than Henderson's Bush Lima.

BEANS (Continued)

POLE VARIETIES

GREEN PODDED: pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 5 lbs., \$1.15.

***Kentucky Wonder:** 65 days. Plants are very tall, vigorous, and prolific. Pods are round, meaty, fiberless, and brittle, with an excellent and distinctive flavor of their own. They should be picked just as soon as they reach their full size, $7\frac{1}{2}$ to 8 inches long.

***Genuine Cornfield:** 71 days. Strong, prolific plants with round, straight pods $6\frac{1}{2}$ to 7 inches long, of good quality, meaty, and tender though with slight string.

Lazy Wife: 72 days. So called because the pods cluster well and are easily picked. Excellent in the home garden either for snap or shelled white beans.

WAX PODDED: pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 5 lbs., \$1.15.

Golden Cluster: 74 days. For snap beans, green shelled beans, or dry beans.

Kentucky Wonder Wax: 68 days. The most popular of all pole wax pod varieties, nearly stringless.

LIMA BEANS: pkt., 10c; $\frac{1}{2}$ lb., 25c; 1 lb., 45c; 5 lbs., \$1.25.

King of the Garden: 88 days. Among pole limas the general favorite for its hardiness and vigor. Climbs well and produces a heavy yield of pods containing 4 or 5 large, oval, greenish white beans.

***Sieva:** 77 days. Also known as Small White, in reference to the size of the beans but the plants are very tall, very prolific, and of long bearing season. Pods have 3 to 4 beans of excellent table quality.

BRUSSEL SPROUTS

Half Dwarf Improved: 70 days. Stems thickly set with firm cabbage-like balls $1\frac{1}{2}$ inch in diameter, maturing successively. Pkt., 10c; 1 oz., 25c; $\frac{1}{4}$ lb., 75c.

CELERY

Pkt., 20c; $\frac{1}{2}$ oz., 40c; 1 oz., 70c.

***Golden Self-Blanching:** 118 days. A popular variety for the home garden. Medium tall, compact, with thick, crisp, brittle stalks that blanch easily.

***Utah (or Golden Crisp):** 127 days. A new green-stemmed variety. Stocky, full hearted and compact. Stems thick, broad, well rounded, of fine nutty flavor and quality.

***Golden Plume (or Wonderful):** 112 days. Resembles Golden-Self-Blanching but is earlier and larger. Shows considerable resistance to blight and rust. Compact, thick hearts, of excellent flavor.

Giant Pascal: 135 days. A hardier, later, larger sort with solid stalks of nutty flavor and dark green foliage.

QUALITY BEETS

Beets do best in deep sandy loam. If smooth roots are wanted, **fresh manure must not be used.** Sow about 12 seeds per foot $\frac{1}{2}$ in. deep in drills 18 in. apart, rolling the earth after planting. Thin to 3 to 4 in. apart; to have supplies through the season, plant every 10 days. To preserve for winter use store in cellars or pits, covering them with dry earth or sand topped with straw. All beets: pkt., 10c; 1 oz., 20c; $\frac{1}{4}$ lb., 40c., 1 lb., \$1.15.

***Asgrow Wonder:** 58 days. All-America Gold Medal 1934. Recognized by this award as a variety of supreme excellence. The All-America citation reads: "Extra early, deepest red all through, semi-flat with rounded bottom, large, extra flavor and quality, smooth skin, 15 in. tops good for bunching". A pedigreed stock, the result of many years of pure line breeding; unsurpassed in earliness, uniformity, and in depth of interior color.

***Asgrow Canner:** 68 days. All-America Award of Merit 1936. Roots globe shaped, smooth with small neck. Flesh ox-blood red with very indistinct red zones; holds quality well until roots are full grown.

***Detroit Dark Red:** 68 days. Seen at its finest development in the pure-bred Asgrow strain. Tops are small and erect. Roots are globular, uniform, and attractive, with deep red flesh.

Crosby's Egyptian: 60 days. A standard early variety, very popular, with dark red, flat-globe or turnip shaped roots.

Early Wonder: 58 days. Small tops, flattened globe shaped roots.

BROCCOLI

Pkt., 25c; 1 oz., 55c; $\frac{1}{4}$ lb., \$1.60

***Italian Green Sprouting (Calabrese):** 60 days from setting of plants to marketable heads. The leading variety for home gardens. Plants are tall, strong, and vigorous with attractive compact heads of bluish green.

White Cape: Large, creamy white, firm head of excellent quality.

Purple Cape: For home gardens. Large, compact, somewhat coarse purple head.

CAULIFLOWER

Cauliflower is a member of the cabbage family and should be similarly cultivated. To blanch the head, the outer leaves should be loosely gathered round it and tied. Pkt., 25c; $\frac{1}{8}$ oz., 45c; $\frac{1}{4}$ oz., 80c.

***Early Snowball:** 55 days. The best and most widely used variety. Dwarf plants with medium sized, solid, pure white heads of finest quality.

***Snowdrift:** 57 days. Somewhat more vigorous and larger than Snowball. Heads deep and exceptionally white, curd of fine texture and free from protruding leaves. Curved inner leaves protect the head until nearly full grown.

Danish Dry Weather: A little later and larger than Early Snowball. Creamy white heads, adapted to dry weather.

CABBAGE

YELLOWS-RESISTANT VARIETIES: pkt., 15c; ½ oz., 35c; ¼ lb., \$1.60.

***Jersey Queen:** 58 days. Cone shaped head. Home garden favorite.

***Marion Market:** 75 days. Developed from Copenhagen Market but with slightly larger, round, firm heads. Valuable for early kraut.

Wisconsin All-Seasons: 90 days. Similar in type standard All-Seasons but perhaps a little coarser.

***Wisconsin Hollander:** 105 days. Similar in type to Danish Ballhead. Very hardy and a good keeper.

STANDARD VARIETIES; pkt., 10c; ½ oz., 25c; ¼ lb., \$1.25.

Jersey Wakefield: 63 days. Cone-shaped heads, small and compact, with inside white, crisp, and tender, about 2¼ lbs.

***Copenhagen Market:** 69 days. An excellent early variety. Heads round and solid, 3½ to 4 pounds; of superior quality.

Perfection Drumhead Savoy: 90 days. For late plantings. Crinkled dark leaves, solid round heads, of high quality and flavor.

Premium Late Flat Dutch: 100 days. A big, solid, late variety of great popularity because of its heavy yield.

Mammoth Red Rock: 100 days. The largest and best red variety. Large, round, solid heads of purple red color.

***Danish Ball Head or Hollander:** 105 days. For storage. The deep round head is very hard, the interior exceptionally compact.

CHINESE CABBAGE

Pkt., 10c; ½ oz., 25c; ¼ lb., \$1.25.

Chihili: The tall early variety, standing 18" to 20" by 3½" at base; somewhat tapered at tip, solid, sweet, and tender.

Pe Tsai: An older sort and slightly smaller than Chihili; compact heads, crisp and sweet.

CANTALOUPE AND MUSKMELON

Pkt., 10c; 1 oz., 20c; ¼ lb., 50c.

Orange or salmon fleshed Varieties

***Hale's Best No. 36:** 80 days. This improved strain has almost entirely replaced the older Hale's Best. It is the earliest and deservedly one of the most popular cantaloupes, oval, sweet, and of very fine quality.

***Honey Rock (or Sugar Rock):** 85 days. Nearly round, about 5½" diameter and 4 lbs. weight. Thick, juicy, orange-salmon flesh of sweet but not heavy flavor.

Banana: 98 days. 7 lbs. Shaped like a huge banana. Very fragrant, nearly solid, salmon-tinted flesh.

Bender's Surprise: 95 days. 7 lbs. Oval, coarse netting, distinctly ribbed. Delicious quality.

CARROTS

Pkt., 10c; 1 oz., 20c; ¼ lb., 45c; 1 lb., \$1.25.
(Except as noted)

A light, deep soil is best for carrots, preferably fertilized the previous season. New manure and lack of cultivation lead to split and crooked roots. Sow a succession of plantings in rows 14 inches or more apart, thinning out later to 2 to 3 inches between plants. One ounce of seed sows 200 ft. of row.

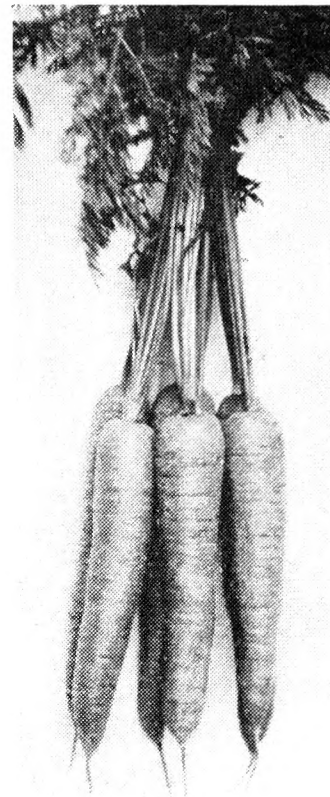
***Asgrow Emperor:** 77 days. All-America Award for 1933. Specially developed to meet the demand for a long, smooth, handsome carrot. Roots have rounded shoulders and taper uniformly to a semi-blunt end, 7" to 8½" long, rich orange in section, with indistinct core; fine grained, tender, sweet, and of excellent quality. Pkt., 10c; 1 oz., 25c; ¼ lb., 60c; 1 lb., \$1.50.

***Improved Chantenay:** 72 days. A well known and popular all-purpose variety, shorter and thicker than Asgrow Emperor, 5" to 6" long, stump-rooted, deep orange with indistinct core.

***Danvers Half Long. (Long Strain):** 75 days. Bright orange roots, medium in length and shape. Crisp and of good quality.

Chantenay, Red Cored: 72. days. Somewhat shorter than Chantenay. Reddish orange flesh almost coreless. Strong tops.

Nantes Improved Coreless: 70 days. Very trim, cylindrical roots of delicate flavor. Small tops. Excellent for forcing.



Asgrow
Emperor
Carrot

POP CORN

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 5 lbs., \$1.00

South American Giant (or Dynamite): 110 days. Strong and hardy plants with large 12 to 16 rowed golden ears. Matures late. Kernels pop big and creamy with fine flavor.

Japanese Hulless: 110 days. A dwarf white sort of very high popping test, huskless and tender.

CANTALOUPE, Cont'd.

Hearts of Gold (or Hoodoo): 94 days. A popular variety, about 5" in diameter and 2 pounds weight. Distinctly ribbed. Juicy, sweet, and aromatic.

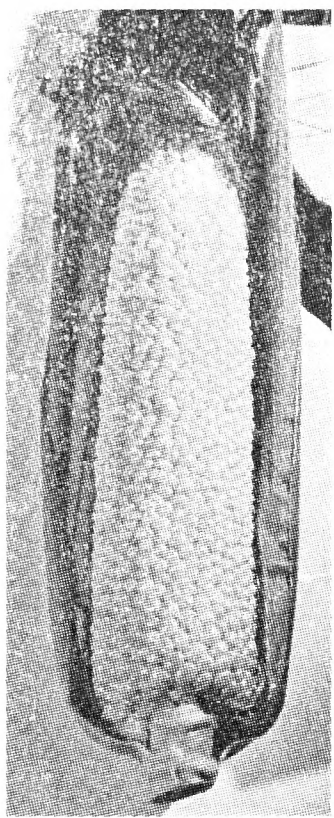
Green-fleshed Varieties

Rocky Ford: 92 days. Standard among the other varieties. Strong prolific vines; melons nearly round, about 5" diameter, practically ribless, with sweet green flesh.

SWEET CORN

YELLOW

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.15; 10 lbs., \$2.00.



Corn
Asgrow
Golden Colonel

***Asgrow Golden Colonel:** 91 days. All-America Award for 1936. One of the finest varieties. The stalks are sturdy and strong, often with two large ears, well filled with very deep, narrow, irregularly arranged kernels, tender and sweet, of the finest eating quality.

***Golden Bantam:** 80 days. Medium ears with 8 rows of broad, tender kernels exceptional in flavor.

***Bantam Evergreen (Golden Evergreen):** 89 days. Asgrow originated from Golden Bantam and Stowell's Evergreen, yielding large 14 to 18 rowed ears of rich golden yellow. Fine quality.

***Asgrow Improved Golden Bantam** 10-14 rowed: 82 days. Asgrow originated, uniform and very attractive. More productive than regular Golden Bantam; the ears are larger and the kernels remain tender a few days longer.

HYBRIDS

Seed from Hybrids should not be saved for reproduction. Pkg., 15c; ½ lb., 25c; 1 lb., 40c; 5 lbs., \$1.50; 10 lbs., \$2.75.

***Golden Cross Bantam:** 88 days. The best and most adaptable hybrid of its kind—a large main crop sort of the improved Golden Bantam type. Very sturdy and reliable, showing high resistance to bacterial Wilt.

Ioana. 85 days. All America Bronze Medal 1939. Considered one of the best recent developments. Plants are tall and sturdy, ears 7½ to 8 inches long, 12-14 rowed, with medium narrow, light yellow kernels.

Top Cross Sunshine (or Tendergold): 80 days. Another good early yellow variety. Ears 10 to 12 rowed; kernels medium broad and of fine quality.

Top Cross Whipple's Yellow: 84 days. An excellent hybrid for the home garden, strong, and resistant to wilt, with medium large ears of golden kernels.

***Spancross C2:** 72 days. The earliest maturing hybrid, yielding good sized yellow ears with 10 to 12 rows of kernels. One parent is Spanish Gold, the other a Connecticut Experiment Station inbred.

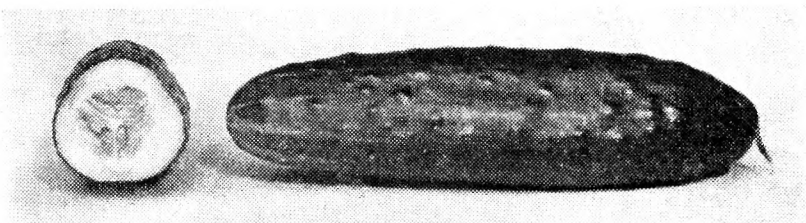
WHITE

Pkt., 10c; 1 lb., 35c; 5 lbs., \$1.15; 10 lbs., \$2.00.

***Stowells' Evergreen:** 95 days. Tall, strong plants; ears 8" to 9" long, 2½" thick, 16 to 20 rows of clear, deep, sweet, and tender kernels.

CUCUMBER

SALAD VARIETIES: pkt., 10c; 1 oz., 25c; ¼ lb., 70c.



Clark's Special Cucumber

***Clark's Special w.s.:** 63 days. All America Award for 1933. Asgrow originated. Handsome, dark green, 9" by 2½", averaging about 2¼ lbs., slightly tapered at both ends; flesh crisp and firm, with few seeds.

***Improved Long Green b.s.:** 70 days. A standard large variety for the home garden; very prolific, hardy and resistant to disease; deep green, 12" by 2½"; white crisp flesh.

Arlington w.s.: 60 days. An older type but very popular for home gardens. Medium green, semi-blunt ends. 8" by 2½".

PICKLING VARIETIES: pkt., 10c; 1 oz., 20c; ¼ lb., 45c. (except as noted).

***National Association b.s.:** 56 days. Originally bred to meet the specifications of the National Pickle Packers Association. Special attention has been given to this important variety at the Asgrow cucumber breeding grounds, and a most desirable strain is being produced; dark green, symmetrical, and nearly square ended.

Chicago Pickling b.s.: 59 days. An old favorite and one of the best for pickling or slicing. Medium green. Very prolific.

Gherkin b.s.: 60 days. Used for small pickles. Pkt., 15c; 1 oz., 25c; ¼ lb., 65c.

EGG PLANT

Can be raised wherever corn and tomatoes do well. Requires loose, fertile soil and will not thrive in clay. Start in hot bed or flats. Prices: Pkt., 15c; ½ oz., 35c; 1 oz., 60c; ¼ lb., \$1.75.

Black Beauty: 80 days from transplanting. Plants 24" to 30" with 4 to 6 large, purplish black fruits, 2 to 3 lbs., which hold color and quality well after picking. The best early variety.

New York Improved Spineless: Fruits a little later and larger than Black Beauty. A popular variety.

ENDIVE

Pkt., 10c; 1 oz., 20c; ¼ lb., 50c

***Batavian Full Heart:** 90 days. An improved form of the older Batavian Broad leaved. The inside leaves, curly, crisp, and tender, blanch to a creamy white.

Green Curled Ruffec: A large, late, very curly sort with tender midribs.

White Curled: 100 days. Smaller plants with well curled leaves of fine flavor.

LETTUCE

Lettuce does not stand hot weather well but is not harmed by mild frosts; the earliest sorts can therefore be transplanted from cold frames to the rows, after hardening by gradual exposure, in the first weeks of spring and the later sorts sown $\frac{1}{4}$ inch deep in the open then. Rich well-prepared soil is advisable as the plants must be grown quickly. Allow $\frac{1}{2}$ oz., of seed per 100 ft. of row.

HEADING VARIETIES: pkt., 10c; 1 oz., 25c; $\frac{1}{4}$ lb., 65c.

***New York:** 80 days. (Also called Wonderful). Dark green leaves with well blanched heads, crisp and sweet. The Asgrow strain of this most popular variety is in demand for its large solid heads.

***Iceberg:** 84 days. An excellent large lettuce for home gardens. Heads are kept solid and blanched by the strong inward-curving ribs of the outer leaves.

Big Boston. (White-seeded): 75 days. Very popular; an excellent butter head type. Medium size, compact head with creamy yellow center, leaves tinged with bronze.

KALE

Pkt., 10c; 1 oz., 15c.

***Dwarf Green Scotch:** 55 days. The pedigreed Asgrow strain is one of the most handsome plants of the garden with its widespread plume-like, dark-green leaves, exceptionally finely curled and frilled.

Tall Green Scotch: 60 days. About 3 ft. high with leaves similar to Dwarf Scotch, borne well above ground.

Dwarf Siberian (Sprouts): 65 days. Large, vigorous, spreading plants.

KOHL RABI

Pkg., 10c; 1 oz., 25c; $\frac{1}{4}$ lb., 65c.

Early White Vienna: 57 days. Light green bulbs with white flesh. A favorite home and market garden sort—especially for forcing in the hot bed.

Purple Vienna: 62 days. Bulb interior light greenish-white and tender; exterior purple, with purple tinged foliage.

LEEK

Pkt., 10c; 1 oz., 25c; $\frac{1}{4}$ lb., 75c

Used in soups, stews, and salads or creamed. When cultivating, draw the soil up around the plants to blanch them.

Large American Flag: Early and very popular. Long, thick, white stems.

Monstrous Carentan: Stalks 2" to 3" diameter, white, tender, mild-flavored. For fall markets.

MUSTARD

Pkt., 10c; 1 oz., 15c; $\frac{1}{4}$ lb., 25c; 1 lb., 70c

***Southern Giant Curled:** The most popular sort for greens with light green leaves curled and crinkled at edges.

Hanson (or Nonpareil): 80 days. Large, hardy sort for fall.

***May King:** 60 days. Very early; outer leaves tinged with brown.

All Seasons: 80 days. Stands hot weather well.
New York No. 12: 77 days. Earlier than New York and stands heat better.

LOOSE-LEAVED VARIETIES: pkt., 10c; 1 oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.70.

***Grand Rapids:** Very popular for greenhouse forcing and early planting; handsome, hardy, and vigorous. Large, light-green, frilled leaves.

Prize Head: A fine old favorite; bronze tinted, crumpled leaves; stands long before going to seed.

Simpson's Curled (Black Seeded): Yellowish green leaves, crisp and very tender.

Simpson's Early Curled: The standard home garden sort, tender and sweet.

White Paris Cos (or Trianon): The favorite cos or romaine lettuce. Upright, solid and conical; light green, crisp and sweet.

ONIONS

Pkt., 10c; 1 oz., 30c; $\frac{1}{4}$ lb., 85c

The onion is a heavy feeder and, for well-shaped, fully developed bulbs, demands a rich and finely worked soil. It is a hardy plant and seed may be sown early in rows 15 inches apart.

Yellow Varieties

***Southport Yellow Globe** (Brigham strain): 110 days. A hardy late sort, in some sections gradually replacing older strains of Southport Yellow Globe; valued because of its superior keeping qualities. Globe-shaped and solid. Creamy white flesh, fine grained and of mild flavor.

***Yellow Sweet Spanish:** 112 days. Skin is golden yellow but flesh is white, crisp, and mild. A very large, globe-shaped onion, excellent for storage.

Early Yellow Globe: 98 days. The earliest yellow globe, yet productive and a good keeper. Earliness minimizes thrip damage.

Ohio (or Michigan) Yellow Globe: 112 days. Noted for its excellent keeping properties.

Yellow Bermuda. A popular early variety. Attractive bulbs of medium size, light yellow and mild flavor.

White Varieties

Pkt., 15c; oz., 40c; $\frac{1}{4}$ lb., 95c

White Sweet Spanish: 112 days. The largest of the white onions; similar to Yellow Spanish except in color, but not quite as good a keeper. Very mild.

Southport White Globe: 110 days. The standard white onion. Large, round bulbs of very excellent quality and flavor.

White Barletta: 90 days. Early and small; for pickling and green bunching.

Red Varieties

Pkt., 15c; 1 oz., 30c; $\frac{1}{4}$ lb., 85c

Southport Red Globe: 112 days. The best red onion; globular, strong.

Onion Sets—Finest quality.

White, qt., 30c; $\frac{1}{2}$ pk., 60c; 1 pk., \$1.00.

Yellow, qt., 30c; $\frac{1}{2}$ pk., 50c; 1 pk., 90c.

OKRA

Pkt., 10c; 1 oz., 15c; ¼ lb., 25c

***Lady Finger White Velvet:** 55 days. Tall, early and prolific, with long, slender pods, spineless, ribless, and creamy white. A very attractive new variety.

Dwarf Green Long Pod: 50 days. Early and prolific with pods very similar to Tall Green. A good variety for the north.

Tall Green (Perkins' Mammoth): 56 days. Popular for its excellent pods and for its adaptability. Tall, spreading plants with abundant pods, very long, slender, dark green, and five angled.

PEAS

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 5 lbs., \$1.15

Smooth Seeded Varieties

Asgrow Alaska w.r.: 60 days. Very early, hardy, and productive. Light green pods 3" long with 6 to 8 bluish-green peas.

Laxton's Superb: 60 days. The earliest large-podded dwarf sort. Pods 4½" long having 9 to 10 peas.

Wrinkled-Seeded Varieties

***World's Record:** 61 days. The Asgrow strain is noted for earliness and large pods each with 7 or 8 peas of finest quality.

***Thomas Laxton, Improved Dark-podded:** 63 days. An excellent medium-early sort; 3½", blunt, broad pods with 7 or 8 large, tender peas.

***Asgrow Teton w.r.:** 63 days. All-America Award for 1937. An attractive new introduction resembling Thomas Laxton strain but fully resistant to fusarium wilt. Large, attractive pods, concentrated in season and well filled with peas.

***Hundredfold:** 63 days. An attractive early large podded sort resembling Laxtonian, popular for home and market gardens. Very deep green pods 4½" inches long, pointed, with 8 large peas of excellent quality.

***Asgrow No. 40 w.r.** 75 days. Bred especially for shippers and market gardeners and unexcelled for their purposes. Stocky branching vines with pods of exceptional size and quality; round, plump, and dark green; 5" to 6" long with 8 to 10 large succulent peas.

Telephone, Tall Dark-podded w.r.: 74 days. Tall vines with handsome large dark-green pods, 5" long, plump and straight, with 8 to 10 highest quality peas.

Dwarf Telephone (or Daisy) w.r.: 79 days. A little later and with slightly smaller pods than Tall Telephone. Vines light green, stocky, and branching. Pods medium light green with 8 to 10 peas.

***Little Marvel:** 60 days. One of the most prolific of the second early sorts. Pods long, 3 to 4 inches.

PARSLEY

***Moss Curled (or Triple Curled):** Its very dark green leaves are so finely crimped and curled that it looks almost like moss. Extremely decorative. Pkt., 10c; 1 oz., 25c; ¼ lb., 50c.

PARSNIP

Hollow Crown: By far the most popular variety. Broad shouldered with pronounced crown and long, tapering white roots; fine-grained, sweet, and tender. Pkt., 10c; 1 oz., 20c; ¼ lb., 45c.

PUMPKIN

Small Sugar (or New England Pie): Pkt., 10c; 2 oz., 25c; ¼ lb., 45c.



Laxton's Progress Pea

***Laxton's Progress:** 62 days. Largest podded and most attractive of the Laxtonian group. Though not planted so early as smooth-seeded varieties, it matures quickly. Handsome dark green pods, 4½" long with 7 to 9 peas. Dwarf vines.

Mammoth Podded Little Midget: 54 days. Extra early and sweet. Vines 12-14 inches bearing large pods with 7 or 8 medium sized peas.

Edible-Podded Varieties

Pkt., 10c; ½ lb., 25c; 1 lb., 45c; 5 lbs., \$1.50

Mammoth Melting Sugar w.r.: 74 days. The best of the edible podded sorts for home and market gardens. Broad, brittle pods, 4½" long, stringless and fiberless.

Note: w.r.—Wilt Resistant.

Nod-O-Gen - Dry.

Peas, beans, and sweet peas (garden legumes) grow better if

their roots develop healthy colonies of nitrogen fixing bacteria. The inoculation of the seed before planting assures better nodule formation and more vigorous plants. Nod-O-Gen Garden culture, for 5 pounds of seed, 25c.



RADISH



Early Scarlet Globe Radish

Tip: 25 days. Very attractive and popular. Almost globe shaped; carmine-red with white tip and small tap root; sweet and tender flesh.

Crimson Giant: 28 days. A larger globe sort, 1½" by 1¾", but firm and not hollow or pithy; of excellent quality.

Long Scarlet Short Top: 27 days. Deep scarlet, white fleshed roots 5" to 6" long.

***Early Scarlet Globe:** 24 days. A very popular variety. Roots globular, very slightly elongated, with medium tops; bright scarlet, crisp, tender, and of fine quality.

***Early Scarlet Globe Special Short Top Strain:** 22 days. For greenhouse forcing. Same as Early Scarlet Globe but with short top.

Early Scarlet Turnip White

PEPPER

Pkt., 15c; ½ oz., 40c; 1 oz., 70c

***California Wonder:** 75 days. A most attractive late variety. Fruits 4½" by 4"; 3-4 lobed, smooth, uniform, and dark glossy green at eating stage, with very thick, mild flesh.

***Asgrow King:** 68 days. All-America Special Mention 1935. Bred for size, uniformity, and quality. The fruits are very large, 5" to 5½" and 3" to 4" across shoulders, tapering, usually 3 lobed and with thick, sweet flesh. Resembles the old Ruby King but is in every respect superior.

Harris' Early Giant: 63 days. Early. Like Bull Nose but larger and longer.

Asgrow King Pepper

Pimento (Perfection): 73 days. Heart shaped; used for canning.

RUTABAGA

***American Purple Top (or Long Island Improved):** 88 days.

For well-shaped radishes the ground should be thoroughly pulverized and enriched with some well-rotted manure and fertilizer. Fresh manure must not be used. First sowings are made very early, with successive sowings up to hot weather. To avoid pithiness the crop should be grown quickly and pulled promptly when mature. Sow in rows 12 to 15 inches apart and ½ inch deep, allowing one ounce to 100 ft. of row. Pkt., 10c; 1 oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

Sparkler: 26 days. Like Scarlet Turnip White Tip but showing more white.

White Icicle: 27 days. The Asgrow strain is of superior quality in appearance and mild, delicious flavor, with short tops to allow forcing and close growing. Roots 3½", tapering, very white and brittle, growing partly above ground.

Early Redbird: 30 days. Ready for eating in 18 to 20 days. Color, rich, bright scarlet; globe shape, never pithy.

Winter Varieties

Chinese Rose Winter (or Scarlet China): 52 days. The popular winter sort. Cylindrical roots 4" to 5" long by 2"; blunt, smooth rose-red with firm, white, rather pungent flesh.

Round Black Spanish: 56 days. A fine keeper; 3" to 4" diameter, strong flavor.

California Mammoth White: 60 days. Roots 7" to 8" long by 2". White crisp, and mild.

SPINACH

Pkt., 10c; ¼ lb., 25c; 1 lb. 60c

Sow in rows 12 to 24 inches apart, depending on the method of cultivation, thinning later to 6 inches. Fall sown seed will give an early spring crop and all should be out before hot weather. Sow again in August or September for a fall crop. Allow 2 ounces to 100 ft. of row.

***Bloomsdale Savoy, Long Standing:** 42 days. Excellent, as it stands heat better and remains in cutting condition longer than most others. Very sturdy and uniform plants with large, heavily crumpled, savoyed leaves.

***Giant Nobel (or Giant Thick Leaved):** 45 days. Strong, spreading, long standing plants with very large, thick, deep green leaves. Tender and well flavored.

Bloomsdale Savoy, Reselected: 39 days. A very popular variety. Early and vigorous.

Blight Resistant (Virginia) Savoy: 39 days. For soils infested with mosaic, more generally known as blight. Tends to bolt early and is therefore better for the fall crop.

King of Denmark: 46 days. Large plants with broad, slightly crumpled, dark green leaves. Popular among market gardeners for spring planting as it is slow to bolt and stands in prime condition unusually long.

Summer Savoy: 45 days. All-America Special mention, 1937. Longer standing than Bloomsdale Savoy, and better during the summer.

New Zealand Spinach: 70 days. Not a true spinach but its small, pointed leaves when cooked have the appearance and flavor of spinach. Thrives in summer and forms new leaves after the outer ones have been picked. Soak the seed and sow when the ground is warm. Pkt., 10c; ¼ lb., 30c; 1 lb., 75c.

SQUASH

Summer or Bush Varieties

Pkt., 10c; 2 oz., 25c; ¼ lb., 45c

***Early White Bush Scallop (Patty Pan):** 53 days. Eaten when young, the flesh is tender and richly flavored.

***Early Yellow Summer Crookneck:** 50 days. Handsome yellow fruits 9" to 10" long, 4" diameter, with cream-colored flesh.

Great Summer Straightneck: 55 days. Very popular with shippers, as it packs well. In the Asgrow strain, fruits have coveted lemon-yellow color, grow to 18" to 22" by 4½".

Early Yellow Bush Scallop: 58 days. Deep yellow; otherwise like the white.

Giant Summer Crookneck. 56 days. Large fruits.

Winter or Trailing Varieties

Pkt., 10c; 2 oz., 25c; ¼ lb., 45c

Table Queen (or Des Moines): 58 days. A delicious squash, usually baked and served in halves. Fruits about 4½" diameter, acorn shaped but ribbed, dark green with yellowish-orange flesh of very pleasing flavor.

Improved Green Hubbard: 105 days. Standard winter sort. Fruits 12" by 9" pointed at both ends. Flesh very thick, dry, and sweet.

Warted Hubbard: 110 days. Similar but somewhat larger and more heavily warted.

SWISS CHARD

Pkt., 10c; 2 oz., 25c; ¼ lb., 40c

***Lucullus:** The most popular sort. Erect and vigorous, with stout white stalks and large crumpled bright green leaves.

Common Green: Medium green leaves with slender lighter green ribs.

TURNIPS

Pkt., 10c; ¼ lb., 25c; 1 lb., 60c

For summer greens or roots sow early in drills 12 to 15 inches apart for hand cultivation, and press the soil down firmly. Thin out when the plants have grown to about 1 inch high. Sow again in the summer for fall and winter use. Allow one ounce for 100 ft. of row.

***Purple Top White Globe:** 55-60 days. The standard table sort; for market garden, shipping, or home. Large, dark green, cut-leaved tops. Roots 4" to 6" diameter, purple-red above, white below, with white, sweet, tender flesh.

***Shogoin:** A new Variety from Japan which has quickly become very popular. The tops make excellent greens in 30 days and the roots in 40 days are crisp and tender. Its upright foliage stands about 20" and is resistant to aphids. Roots are semiglobular, with white inside and out. Should be eaten when young.

WATERMELON

Pkt., 10c; 1 oz., 20c; ¼ lb., 50c

***Dixie Queen (or White-seeded Cuban Queen):** 85 days. A delicious new melon, more round than oval, 30 to 40 pounds, light green with dark green longitudinal markings. Crisp, red flesh, sweet all through; seeds white and few in number.

***Stone Mountain (or Dixie Belle):** 90 days. Very large round-oval and green with rich scarlet flesh of exceptional flavor and quality.

IMPROVED TOMATOES

Pkt., 10c; ¼ oz., 20c; 1 oz., 60c

(except as noted)

Sow in hot beds or indoor flats using fresh soil. Keep the young plants free of insects and about 6 weeks later when danger of frost is past transplant to reasonably rich soil, setting the plants 3 to 4 ft. apart. One ounce will make 1,500 to 2,000 plants. Days given below are from transplanting to picking.

Scarlet Fruited

***Asgrow Scarlet Dawn:** 70 days. All-America Gold Medal 1935. This beautiful early tomato is one of the finest developments of modern vegetable breeding. The vines are of medium growth, fairly open and very prolific. The fruits are globular and smooth, thick-walled, bright scarlet in color, ripening well to the stems. Exceptionally attractive and of rapidly increasing popularity. Pkt., 15c; ¼ oz., 30c; 1 oz., 90c.

***Marglobe:** 77 days. An excellent disease resistant sort. Strong plants with heavy foliage; fruits medium large, nearly globular, smooth, solid, thick-walled, and of deep scarlet.

Pritchard (Scarlet Topper): 73 days. A popular wilt-resistant, self-topping or self pruning variety. The fruits are of good size, solid and globular, but slightly flatter than Asgrow Scarlet Dawn, and the color is not so rich.

Greater Baltimore: 82 days. Large vines with medium foliage. Large thick-flat, deep red, solid fruits. Primarily a canner's variety, special attention has been given the Asgrow strain to make it earlier, more uniform, deeper, and free from ridges and cracks.

Beefsteak: (Red Ponderosa or Crimson Cushion); 90 days. The Asgrow strain is wilt-resistant. Very large, flat, scarlet fruits.

Break o' Day: 70 days. Early and wilt-resistant Light Scarlet fruits.

Earliana: 66 days. A first early bright red, thick-flat tomato.

John Baer: 70 days. Medium sized fruits, semi-globular, bright scarlet.

Pink and Yellow Fruited

Livingston's Globe: 82 days. Large and smooth fruit. Heavy producer.

Ponderosa: 88 days. Large spreading vines with very big flat fruits, apt to crack but solid, sub-acid, and of excellent flavor.

Oxheart: 90 days. Very large, heart shaped, rosy pink and solid.

Golden Queen: 84 days. Large, golden yellow fruits, flattened, solid, and mild.

Livingston's Globe Greenhouse Forcing: The Asgrow strain of this most satisfactory forcing sort is very popular. Yields heavily and consistently. Fruits are medium size, uniform, and of finest quality. Pkt., 25c; 1 oz., \$2.50.

Small-Fruited:

Red Plum, Yellow Plum, Red Pear, Yellow Pear, Red Cherry, Yellow Cherry. These varieties, about 2" long, are used for decorative purposes and in preserves and pickles. Attractive novelties. Their names are indicative of shape and color. Pkt., 10c; ¼ oz., 25c; 1 oz., 75c.



Aster Early
Giant
Wilt Resistant



Aster Peony
Flowered



Aster Beauty



Aster California
Giant Sunshine



Aster California
Giant

SELECTED FLOWER SEEDS

Our Flower Seeds are secured from Bodger Seeds, Ltd., of California, one of the outstanding growers and breeders of fine flower seeds. These seeds are noted for their high germination, strong vitality, purity, true colors and types, and well balanced mixtures.

Note: For your greater convenience we introduce this year the "Estate Packet," (indicated as Pkt.) containing three or four times the quantity of seed in the usual seed packet. As a guide in ordering, the Estate Packet contains about $\frac{1}{3}$ the amount of seed in the smallest weight unit given.

PLANTING INSTRUCTIONS

For all flower seeds which should be started indoors, the best plan is to sow in flats which should be filled with nicely sifted soil, composed, if possible, of about one-third each of sand, peat moss, and light garden loam. Press firmly and evenly and water thoroughly the day before sowing. Sow the seeds thinly over the surface, cover lightly and press firmly. When the seedlings are large enough to handle, they should be transplanted into similarly prepared boxes an inch apart each way, or put into small pots until time to plant out in the open ground. At all times they should have an abundance of air; otherwise the young seedlings are liable to "damp off".

For most of the ordinary annual flowers, the simplest method is to sow directly out-of-doors, when danger of frost is past, in the space where they are intended to flower. It will prove quite an advantage to mix all small seeds with sand or dry soil and scatter broadcast. This separates the seeds and is an advantage in thinning out or transplanting the young plants as those that remain are undisturbed. A common mistake in sowing flower seeds is covering too deeply. The exception to this is the Sweet Pea, which should be planted 2 or 3 inches deep. As a general rule, cover small seeds only to the depth of three or four times the thickness of the seeds.

ASTERS (a)

For Outdoor or Greenhouse culture

Early Giant Wilt Resistant. Finest of the new developments. Bloom early August. Pkt., 30c. $\frac{1}{8}$ oz., 65c.

34 Light Blue. 38 Peach Blossom.

Super Giant. Largest and most fully double Aster class. Flowers 6" to 8" across. Plants 2½ ft. tall. Pkt., 25c; $\frac{1}{8}$ oz., 50c.

20 El Monte, crimson, early.

26 Los Angeles, shell pink.

Improved Giants of California Curled and Interlaced. Pkt. 25c; $\frac{1}{8}$ oz., 50c. Late August.

44 Dark Purple, wilt resistant.

66 Deep Rose, green stems.

68 Azure Blue, soft light blue.

72 Peach Blossom, opens white, flushes lavender pink.

76 White, pure white: 78 Finest Mixed.

80 Crimson.

82 Loveliness, lovely rich pure pink. **New.**

Giant Mammoth Paeony Flowered (Superb florist strain). Pkt., 25c; $\frac{1}{8}$ oz., 50c.

100 Azure Fairy, clear azure blue.

104 Peach Blossom, opens white, flushes lavender pink. 106 Purple Robe, deep purple.

108 Rose Bud, clear deep rose.

112 Swansdown, pure white.

116 **Aviator**, rich crimson. **New.**

114 **Mariner**, rich medium or navy blue. **New.**

118 Finest Mixed.

Improved Giant California Sunshine. Fascinating new Aster type called most beautiful in the world. Flowers 4" to 5" across, plants 2' to 3' in height. Pkt., 30c; $\frac{1}{8}$ oz., 60c. Bloom Sept.

930 Apple Blossom or Shell Pink.

932 Enchantress Pink, salmon pink.

934 Lavender or Azure Blue. 942 White.

936 Light Blue. 938 Purple or Dark Blue.

940 Rose, light rose or deep pink.

948 Finest Mixed.

Aurora. Large full flowers, quilled centers, outer band of broad petals. Pkt., 15c; $\frac{1}{8}$ oz., 35c.
1112 Golden Sheaf, wilt resistant.

Improved Crego Wilt Resistant. Plants 2½ ft. tall, flowers large, double and well formed. Bloom mid-Sept. Pkt., 15c; $\frac{1}{8}$ oz., 30c.

300 Azure Blue. 310 Deep Rose, bright.

302 Blue Flame, bright navy blue.

304 Cattleya, orchid, large flowering.

316 Shell Pink. 318 Purple, or dark blue.

320 White. 324 Enchantress, salmon rose.

328 Finest Mixed.

Giant Branching Comet Wilt Resistant. Plants 2' to 3', branching, large double flowers. Bloom mid-Sept. Pkt., 15c; $\frac{1}{8}$ oz., 30c.

440 Azure Blue. 446 Deep Rose, bright.

454 Royal Purple. 456 Shell Pink. 458 White.

460 Rose, light. 464 Finest Mixed.

KEY TO SYMBOLS

(a) Annual

(p) Perennial

(b) Biennial

(ra) Rock Plant Annual

(c) Climber

(rp) Rock Plant Perennial

(gr) Greenhouse

Early Beauty Wilt Resistant. Early Beauties flower from early September until frost. 2½ to 3 ft. tall. Pkt., 15c; ¼ oz., 35c.
 120 Azure Fairy, azure blue.
 122 Black Prince, deep marine violet.
 124 Crimson. 126 Deep Rose.
 136 September Beauty, delicate shell pink.
 138 White. 140 Finest Mixed.

Imbricated Pompon. Upright growing 12" to 14". Flowers excellent for cutting. Pkt., 35c; ½ oz., 70c.
 840 Blood Red. 850 Light Blue. 854 Rose.
 858 Violet. 860 White. 868 Finest Mixed.

Single Chinensis, Wilt Resistant. Daisy-like flowers. Late Aug. Pkt., 10c; ¼ oz., 25c.
 1032 Dark Blue. 1036 Lavender.
 1034 Flesh Pink, apple blossom.
 1040 Marshall Joffre, dark scarlet.
 1046 White. 1058 Finest Mixed.

Perennial Asters. Pkt., 25c. 1/16 oz., 50c.
 1242 Michaelmas Daisy, newest varieties mixed.

ACROCLINIUM DOUBLE (Helipterum Roseum) (a) (Everlasting). Pkt., 15c; ¼ oz., 25c.
 1622 Mixed, rose and white.
 1624 New Large Flowered Double Hybrids.

AGERATUM MEXICANUM (Floss Flower)
 One of the best quick growing annuals, excellent for all summer blue tones.
Tall. Pkt., 15c; ¼ oz., 30c.
 1640 Album, white. 1642 Blue. 1648 Mixed.

Dwarf Compactum. Pkt., 20c; ¼ oz., 45c. (Except as noted.)
 1650 Blue Ball.
 1652 Blue Cap, miniature. Pkt., 25c; ⅛ oz., 50c.
 1658 Little Dorrit White.
 1662 Purple Perfection, deepest blue.

ALYSSUM (Madwort)—Deservedly in first place among edging plants because of its beauty and sweet fragrance. The lilac, cream, and white colors may be used alone or in combination or are excellent with Ageratum, Lobelia, or Nierembergia Hippomanica.
 1696 Maritimum (a) sweet, white, 10". Pkt., 10c; 1 oz., 25c.

Compactum. Pkt., 15c; ¼ oz., 25c.
 1698 Erectum. Little Gem, (ra) white, 4" to 6".
 1700 Lilac Queen Improved, 6".
 1702 Little Dorrit, miniature white, 3".
 1704 Lutescens, creamy yellow, 4" to 6".

Procumbens. Pkt., 15c; ¼ oz., 30c.
 1708 Carpet of Snow, (ra) spreading, 2" to 3".
 1710 Snow Cloth, excellent new selection.

ANCHUSA. Pkt., 10c; ¼ oz., 25c.
 1780 Blue Bird, (a) indigo blue, 20" to 24", compact.
 1782 Capensis, (a) forget-me-not blue, 22".

ANEMONE CORONARIA (p). Pkt., 15c; ¼ oz., 50c.
 1800 French Varieties Mixed.
 1802 His Excellency, single fiery scarlet.

ANTHEMIS (p). Pkt., 15c; ¼ oz., 30c.
 1810 Kelwayi, golden yellow.
 1814 Montana, pure white, yellow eye, 8" to 10". Early.

ANTIRRHINUM (Snapdragon) (a)

The introduction of rust proof strains of Antirrhinum has given this beautiful flower an even more important place in the garden than it had before. The Bodger organization has been a leader in the development of resistant strains in the many varieties. All of the varieties we list are rust proof and are of special florists' strains. Preferred for either greenhouse or outdoor culture.

Tall Large Flowered, Rust Proof. 2½' tall. Pkt., 25c; 1/16 oz., 50c.
 1854 Finest Mixed.
 1862 Alaska (Snowflake), white.
 1864 Apple Blossom, rosy pink, white tube.
 1866 Campfire, luminous scarlet.
 1868 Canary Bird, canary yellow.
 1874 Copper Shades (Autumn Glow).
 1880 Fair Lady, pink, white tube.
 1886 Loveliness, soft rose pink.
 1892 Red Cross, crimson, white tube.
 1896 Salmon Rose Shades.

Forcing Varieties. Pkt., 50c.
 Gr. 1 Kirkwood Beauty, bronzy orange.
 Gr. 3 Lucky Strike, Good white.
 Gr. 5 Cheviot Maid, pink.
 Gr. 7 Rose Queen.
 Gr. 9 Ceylon Court, yellow.
 Gr. 11 Velvet Beauty, crimson red.
 Gr. 13 Bertha Baur, lavender.

Super Majestic Rust Proof. Tall. Pkt., 25c; 1/16 oz., 50c.
 1950 Autumn Glow, old rose suffused amber, golden lip.
 1952 Dainty, soft pink. 1956 Orange shades.
 1958 Red Shades. 1960 Rose Shades.
 1962 Shell Pink Shades.
 1898 California Giant Mixture.

Dwarf Large Flowered Rust Proof. 18" to 20". Pkt., 20c; ⅛ oz., 40c.
 1826 Carmine Rose, bright.
 1828 Glowing Sunset, rosy scarlet.
 1830 Indian Girl, old gold.
 1836 Red Boy, rich deep scarlet.
 1838 Wildfire, bright orange scarlet.
 1846 Finest Mixed.

AQUILEGIA (Columbine) (p) Pkt., 25c. (Except as noted.)
 2164 Coerulea, Rocky Mountain Columbine.
Long Spurred
 2190 Longissima. New. Delicate yellow, extremely long spurs. Pkt., \$1.00.
 2180 Dobbies Imperial Hybrids. Mixed.

ARABIS ALPINA (Rockcress) (rp).
 2196 White. Pkt., 15c; ¼ oz., 30c.

ARCTOTIS (a)
 2200 Grandis (African Lilac Daisy). Pkt., 10c.
 2208 Hybrids, showy, daisy-like flowers, red and orange shades. Pkt., 25c.

BALSAM DOUBLE (Lady Slipper) (a).
Bush Flowered. Pkt., 25c; 1/8 oz., 65c.
 2320 Finest Mixed. 2322 Torch. Red, dwarf.
Camellia Flowered. Pkt., 15c; 1/4 oz., 30c.
 2280 Malmaison Pink. 2282 Scarlet.
 2284 Salmon Rose. 2288 Finest Mixed.

Rose Flowered. Pkt., 10c; 1/4 oz., 25c.
 2294 Flesh. 2296 Lilac. 2304 White.
 2306 Yellow. 2308 Finest Mixed.
 2310 Goliath, Chamois rose (4 ft.).

BRACHYCOME IBERIDIFLOIA (Swan River Daisy). Pkt., 15c; 1/4 oz., 35c.
 2390 Finest Mixed.

BROWALLIA ELATA (a) 12".
 2398 Mixed. Pkt., 15c; 1/4 oz., 35c.

CALENDULA DOUBLE (Pot Marigold) (a).
 Calendulas are an important cut flower class and the varieties listed are exceptionally fine for this purpose. Calendulas mildew easily and should be sprayed frequently with an all-purpose spray containing either sulfur or a copper compound.

For Greenhouse or Outdoor culture.
 Pkt., 15c; 1/4 oz., 30c.
 1/4 oz., 30c.



Calendula

2440 Apricot Queen, soft shaded orange.
 2452 Ball's Masterpiece, rich deep orange, dark center.
 2454 Ball's Orange.
 2464 Chrysantha, clear buttercup yellow.
 2470 Golden Radio Improved.
 2482 Orange Shaggy, fringed petals.
 2448 Ball's Lemon Queen, golden yellow.
 2490 Sunshine, improved strain of chrysantha.
 2498 Campfire, Bodger's Improved Florist Strain. Dark orange.
 2500 Orange Sunshine, Chrysantha type.
 2502 Ball's Gold, dark center, very large flowers.
 2514 Finest Mixed.

CALLIOPSIS (Tickseed) (a)
 Pkt., 10c; 1/4 oz., 25c.

Bicolor Tall—3 ft.
 2530 Nigra Speciosa, dark brown.
 2532 Splendens, golden yellow, brown centers, large flowers. 2534 Semi-double mixed.

Bicolor Dwarf—6" to 8"
 2540 Crimson King, deep crimson.
 2542 Dazzler, golden yellow, maroon center.
 2544 Golden King. 2548 Radiata Golden Ray.
 2554 Annual Mixed

Drummondii
 2560 Semi-double, Golden Crown.

CANDYTUFT

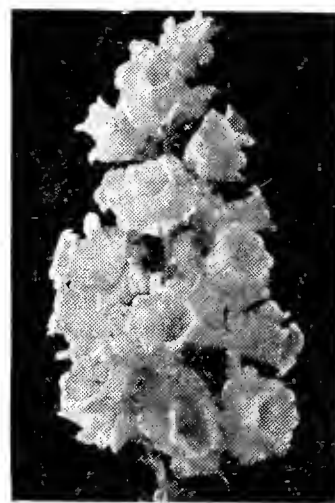
Annual
Coronaria. Pkt., 15c; 1/4 oz., 20c.
 2632 Giant White Hyacinth Flowered. Improved Florist Strain. 15".
 2634 Little Prince, dwarf. 8".
Umbellata, 1 ft. Pkt., 10c; 1/4 oz., 20c.
 2646 Crimson, purplish red. 2648 Flesh.
 2654 Rose, soft rose. 2656 White.
 2658 Finest Mixed.

Perennial
Iberis. Pkt., 15c; 1/4 oz., 35c.
 2672 Queen of Italy, rosy lilac.
 3668 Gibraltarica, white flushed lilac.

CAMPANULA

The Canterbury Bells and other Campanulas are among the fine cut flowers of the garden. Beautiful in texture and coloring they deserve a place in every garden, whether they are to be used for cutting or not.

Calycanthema. (Cup and Saucer Canterbury Bells) (b).
 Pkt., 15c; 1/8 oz., 35c.
 2620 Dark Blue (Violet).
 2622 Light Blue (Lilac).
 2624 Rose. 2626 White.
 2628 Finest Mixed.



Campanula
Calycanthema

Annual Canterbury Bells. (a).
 Pkt., 15c; 1/4 oz., 35c.
 Blooms from seed in less than 6 months. Plants 2' to 2 1/2', 6 to 8 spikes.
 2578 Pyramidalis Blue (Chimney Bells) 5'.
 2600 Angelus Bell, deep rose.
 2602 Blue Bell, cambridge blue.
 2604 Liberty Bell, deep violet blue.
 2606 Mission Bell, clear pink.
 2616 Wedding Bell, white. 2618 Finest Mixed.

Miscellaneous varieties (p). Pkt., 15c; 1/8 oz., 25c.
 2570 Alliariaefolia, creamy white. Good border plant 2' to 3'.
 2572 Carpatia (Hare Bell), light violet. 8"-10".

CARNATION

Carnations may be grown readily in the garden from seed and will bloom from 5 to 6 months after sowing. These are hardy plants and should be set out early after starting in the greenhouse or hot-bed.

Engelmann's Perpetual Gold Medal. (pf). Original, hand pollinated seed. 2690 Finest Mixed. 100 seeds, \$1.00.

Chabaud's Enfant De Nice. (af). Best early giant carnation, blooming first year from seed. Long stems.
 2714 Finest Mixed. 100 seeds, 25c.

Chaubaud's Giant Double Improved (pf). Pkt., 35c; 1/8 oz., 75c.
 2722 Deep Rose. 2732 White.
 2724 Flesh Pink. 2734 Yellow.
 2726 Rose Pink. 2742 Finest Mixed.
 2728 Salmon Rose.

CELOSIA (Cockscomb) (a)
Improved Cristata. Pkt., 15c; 1/8 oz., 35c.

Dwarf

2806 Amaranth, brilliant red, green, foliage.
2814 Empress, dark foliage, dark red flowers.
2812 Golden Yellow. 2824 Finest Mixed.

Tall

2826 Crimson. 2828 Mixed.

Plumosa (Improved feathered type). (a). 2' to 3'.
Pkt., 15c; 1/4 oz., 35c.

2830 Pride of Castle Gould. 2834 Fiery Red.
2838 Yellow. 2844 Finest Mixed.
2848 Thompsonii Magnifica Finest Mixed. 2'.

Childsii (Chinese Wool Flower). (a). 2' to 3'.
Pkt., 20c; 1/4 oz., 45c.

2850 Crimson. 2854 Rose. 2856 Yellow.
2858 Finest Mixed.

Pyramidalis. (a). 18" to 20".

2878 Flame of Fire. Pkt., 25c.

CENTAUREA (Bachelor Button, Cornflower) (a)
Cyanus Double. Special Strain. Pkt., 10c; 1/4 oz., 25c.

2894 Blue Boy.
2896 Black Boy, blackish maroon.
2898 Pinkie. 2900 Red Boy, dark red.
2902 Snow Man. 2904 Finest Mixed.
2962 Dwarf Jubilee Gem. Pkt., 15c; 1/8 oz., 35c.

Giant Imperialis. Pkt., 15c; 1/4 oz., 35c.

2916 Delicate Lilac. 2926 White.
2932 Finest Mixed. 2910 Amaranth Red.
2912 Brilliant Rose. 2914 Deep Lavender.
2924 Suaveolens Yellow.

Miscellaneous Varieties.

2950 Americana Lilac. Pkt., 15c; 1/4 oz., 35c.
2952 Americana White. Pkt., 15c; 1/4 oz., 35c.
2954 Candidissima (Dusty Miller), yellow, sil-
very foliage. Pkt., 15c; 1/8 oz., 35c.

CHEIRANTHUS. (p). Pkt., 10c; 1/4 oz., 25c.

2976 Allioni (Siberian Wall flower) brilliant
orange, 1'.
2978 Kewensis, dark orange, turns to light pur-
ple; fragrant. 2980 Linifolius, mauve, 6".
2982 Allioni, Golden Bedder, golden orange.

CHRYSANTHEMUM

Single Annual (Painted Daisies). (af). Pkt., 15c;
1/4 oz., 25c.

3038 Segetum, Finest Mixed.
3026 Segetum Eldorado, golden yellow, dark eye.
3028 Segetum Eastern Star, primrose disc,
brown eye.
3030 Segetum Evening Star, deep yellow, light
brown eye.
3032 Segetum Gloria, white, pale yellow disc,
yellow eye.
3024 Segetum Morning Star, primrose, yellow
disc and eye.

Coronarium Dwarf, Double Annual. (a). Pkt. 15c;
1/4 oz., 25c.

3040 Golden Queen. 3042 Primrose Queen.
3044 White Pearl.

Coronarium Tall.

3058 Mixed. Pkt., 10c; 1/4 oz., 25c.

CINERARIA CALIFORNIA SUPER GIANT
(Greenhouse) Pkt., \$1.50.

3092 Blue Shades. 3096 Salmon Shades.
3094 Crimson and Carmine Shades.
3098 Superb Mixture.



Clarkia Elegans

CLARKIA, ELEGENS
DOUBLE. (af). 2". Pkt.,
15c; 1/4 oz., 35c.

3100 Albatross, white.
3104 Apple Blossom.
3112 Enchantress, orange
shading pink.
3120 La France, salmon
pink.
3124 Orange King, bright
salmon.
3146 Choice Mixed.

COBAEA SCANDENS (Cathedral Bells) (ac).
3178 Mixed. Pkt., 15c; 1/4 oz., 35c.

COLEUS HYBRIDUS. (Greenhouse).
3188 Choice Mixed. Pkt., 25c.

COREOPSIS GRANDIFLORA. (p). Pkt., 15c;
1/4 oz., 25c.
3212 Lanceolata (California Sunbeam)
3214 Mayfield Giant, golden yellow.
3220 Double Sunburst, large golden yellow, fully
double.

COSMOS (af)

These new Cosmos have been greatly admired.

Sensation. Very large flowers 4" to 5" across.
Pkt., 15c; 1/4 oz., 35c.

3200 Pinkie. 3202 Purity. 3278 Finest Mixed.

Extra Early Double Crested. Pkt., 15c; 1/8 oz., 40c.
3250 Crimson King. 3252 Pink Beauty.
3254 White Queen. 3256 Finest Mixed.

True Early Mammoth. Pkt., 15c; 1/4 oz., 30c.

3284 Crimson Queen.
3286 Rose Queen.
3288 White Queen.
3248 Queen Mixed.

CYNOGLOSSUM (a).

3184 Amabile Dwarf Firmament (dwarf form
Chinese Forget-me-not). Pkt., 25c; 1/8 oz., 50c.
3298 Amabile Blue Bird, bright blue. Pkt., 15c;
1/4 oz., 30c.
3296 Amabile Pink, Pkt., 15c; 1/4 oz., 30c.

CUPHEA. (a). An excellent edging plant, dwarf
and compact, with butterfly-like flowers of
cerise red, blooming for several weeks.
3328 Firefly (new). Pkt., 50c.

DAHLIA

The Coltness and Unwin's Hybrids have deserv-
edly become one of the most popular classes of
flowers in the garden, either large or small. They
are as easy to grow as any other flowers and at-
tractive plants make a show in any situation. Ex-
cellent cut flowers.

3318 Coltness Hybrids, dwarf. Pkt., 25c; 1/8 oz.,
50c.
3320 Unwin's Dwarf Hybrids, free flowering.
Pkt., 25c; 1/8 oz., 50c.
3322 Unwin's Ideal Bedding Mixed. Pkt., 35c;
1/8 oz., 75c.

DATURA (Angel's Trumpet). (a).

3330 Wrightii. Pkt., 10c; 1/4 oz., 25c.

DIANTHUS HEDDEWIGI (Japanese Pinks).

(a). Plants dwarf, compact, free flowering. 10" to 12". Pkt., 15c; ¼ oz., 35c.

Double

- 3410 Fireball, crimson. 3414 Violet Queen.
3412 Mourning Cloak (maroon).
3426 Finest mixed.

Single

- 3602 Indivisa, narrow leaved.

Laciniatus. (a). 10"-12", free flowering. Pkt., 15c; ⅛ oz., 25c.

- 3442 Double Pink Beauty.
3446 Double Snowdrift.

Dianthus Hybridus. (a). 3496 Sweet Wivelsfield, free flowering type. Pkt., 15c; ¼ oz., 30c.

DRACAENA (Greenhouse). Pkt., 15c; ¼ oz., 25c.

- 3600 Australis, broad leaved.
3602 Indivisa, narrow leaved.

ESCHSCHOLTZIA (California Poppy). (a).

Dwarf Erect Varieties. Pkt., 10c; ¼ oz., 50c.

- 3652 Dazzler, fine bright scarlet.
3660 Mauve Beauty.
3666 The Geisha, orange crimson, fluted.
3676 Hybrida Dwarf Erect Mixture.

Double Varieties. Pkt., 10c; ⅛ oz., 25c.

- 3720 Alba. 3726 Enchantress, tyrian rose.
3724 Carmine Queen. 3732 Salmon Beauty.
3734 Robert Gardiner, orange.
3744 Choice mixed.

Ramona Strain. New compact and erect strain with flowers beautifully frilled and incurved. Pkt., 15c; ⅛ oz., 35c.

- 3746 Ramona, golden bronze.
3748 Golden Dawn, golden yellow.
3750 Pink, soft shades.
3758 Ramona Hybrids, mixed.

EUPHORBIA. (a). Pkt., 10c; ⅛ oz., 25c.

- 3760 Heterophylla (Annual Poinsettia)
3764 Variegata (Snow on the Mountain)

EXACUM. (a). Neat, attractive, easily grown pot plant, blue flowers.

- B 21 Atrocoeruleum. Pkt., 50c.

FORGET-ME-NOT (see Myosotis)

FOUR O'CLOCK (see Marvel of Peru)



Gaillardia
Picta Single

GAILLARDIA (Blanket Flower)

Picta Annual. Pkt., 15c; ¼ oz., 30c.

- 3804 Single Indian Chief, bronzy red.
3816 Single Mixed.
3822 Semi - double Aurora Borealis, brown, red, and yellow.

3826 Double Lorenziana, Finest mixed.

Grandiflora Perennial. Pkt., 25c; ¼ oz., 50c.

- 3828 Bremen, coppery

scarlet, golden yellow edge.

- 3830 Burgundy, coppery scarlet self.
3836 Dazzler, intense golden yellow.
3850 Monarch Strain, Finest mixed.

GERBERA (Transvaal Daisy) (Greenhouse).

3884 Giant Hybrids. Pkt., 50c.

GILIA. (a). Pkt., 10c; ¼ oz., 25c.

- 3900 Capitata Lavender (Queen Anne's Thimble)
3902 Capitata White.
3904 Tricolor Dwarf Mixed (Satin Flower).
3908 Coronopifolia Hybrids. Pkg., 15c.

GODETIA

Low growing, profusely blooming plants with showy, satiny flowers in varied colors. They add color and charm to the planting.

Dwarf Compact Single. (a). Pkt., 15c; ¼ oz., 30c.

- 3930 Lady Satin Rose, satiny sheen on deep rose. 3938 Thunderbolt, deep crimson.
3958 Finest Mixed.

Upright Single. (a). 16 inches. Pkt., 25c; ¼ oz., 50c.

- 3970 Sybil Sherwood, bright salmon pink.
3976 Purity, pure white. 3988 Finest Mixed.

Dwarf Double Azalea Flowered. (a).

- 4012 Finest Mixed. Pkt., 25c; ⅛ oz., 50c.

Tall Double Shamini Large Flowered. (a). Pkt., 10c; ¼ oz., 25c.

- 4016 Cherry Red. 4020 Lavender.
4024 Rich Pink. 4028 White, tinted.
4038 Finest Mixed.

GOURDS. (a).

- 4098 Large and small sorts mixed. Pkt., 10c; ½ oz., 20c.

GOMPHRENA (Globe Amaranth). (a).

- 4040 Globosa Mixed. Pkt., 10c; 3 pkts., 25c.

GYPSOPHILA (Baby's Breath). (af). Pkt., 10c; ¼ oz., 25c.

Elegans Grandiflora. 1½ ft.

- 4108 Rosea, light rose. 4114 Finest Mixed.
4110 London Market Improved, white.
4106 Paris Market, white.

HELIANTHUS ANNUUS (Sunflower). (a).

Pkt., 10c; ¼ oz., 25c.

- 4156 Extra Dwarf Chrysanthemum-fl., golden yellow. 3'.

- 4162 Dwarf Maroon Prince, single, best red, 4'.

HELICHRYSUM MONSTROSUM (Straw

Flower). (af). Pkt., 15c., ¼ oz., 35c.

- 4194 Fireball. 4196 Golden Ball.
4200 Rose Queen. 4202 Salmon Queen.
4204 Silverball. 4206 Silvery Pink.
4208 Violet Queen. 4216 Mixed.

HELIOTROPIUM (Greenhouse). Pkt., 25c; ⅛ oz., 50c.

- 4234 Regale, dwarf, large flower heads, sweet scented.

- 4220 Lemoine Strain.

HOLLYHOCK.

- 4272 Semi-double Annual Mixed. Pkt., 10c; ¼ oz., 25c.

HUNNEMANIA FUMARIFOLIA. (Mexican Tulip Poppy) (a). Pkt., 20c; ¼ oz., 45c.

- 4330 Single Yellow, 18".
4332 Sunlight, semi-double.

IMPATIENS. (a). Colorful for bedding in shady locations. Dwarf and compact. Pkt., 25c.

- B 31 Dwarf Sultani, bright carmine.
B 33 Dwarf Mixture.

IPOMEA. (ac). (Morning Glory)

- 4364 Giant Pink. Pkt., 10c; $\frac{1}{4}$ oz., 20c.
 4370 Clarke's Earliest Heavenly Blue Morning Glory. Pkt., 15c; $\frac{1}{4}$ oz., 35c.
 4378 Noctiflora White Moonflower. Pkt., 10c.
 4384 Morning Glory Scarlett O'Hara (New). Pkt., 25c; $\frac{1}{8}$ oz., 50c.
 4396 Quamoclit (Cypress Vine) Cardinal Climber. Pkt., 15c.

KOCHIA (Burning Bush, Summer Cypress). (a).

- 4418 Childsii. 2 $\frac{1}{2}$ '. Pkt., 10c; $\frac{1}{2}$ oz., 25c.

ANNUAL LARKSPUR**For Outdoor or Greenhouse Culture**

In this important group the tall, upright, compact, basal branching Giant Imperials have assumed the most important place both for florists and in the garden. If the faded flowers are picked off, the plants have a long blooming period. The seed should be chilled for several days in the refrigerator to secure better germination.

Giant Imperial. (af). Tall, upright, compact double flowers, stems 4' to 5'. Pkt., 15c; $\frac{1}{4}$ oz., 35c.

- 4430 Blue Bell. 4434 Carmine King.
 4436 Daintiness, delicate lavender.
 4438 Exquisite Pink. 4440 Exquisite Rose.
 4452 White Spire, pure white, early.
 4444 Lilac Spire. 4468 Finest Mixed.

Tall Double Stock Flowered. (a). 3' to 4'. Pkt., 15c; $\frac{1}{4}$ oz., 30c.

- 4470 Azure Blue. 4496 Lilac Supreme.
 4486 Rosamond, pure deep rose.
 4492 White. 4506 Finest Mixed.

Dwarf Emperor. (a). Ideal for border; 2'. Pkt., 15c; $\frac{1}{4}$ oz., 30c.

- 4528 Ageratum Blue.
 4538 Enchantress, light pink.
 4546 White. 4552 Finest Mixed.

LANTANA. (Greenhouse). (a).

- 4422 Dwarf Hybrids Mixed. Pkt., 25c.

LATHYRUS LATIFOLIUS (perennial pea)

Decorative climbing vine for fences etc. Pkt., 15c; $\frac{1}{4}$ oz., 30c.

- 4560 Pink Beauty. 4564 White Pearl.

LEPTOSYNE. (a).

- 4594 Double Golden Rosette. **New** Brilliant golden yellow. 16" to 18" tall, free flowering. Pkt., 25c; $\frac{1}{8}$ oz., 50c.
 4590 Maritima (Sea Dahlia) Marguerite-like yellow flowers. 18". Pkt., 15c; $\frac{1}{4}$ oz., 35c.
 4592 Stillmani, golden yellow. 12". Pkt., 15c; $\frac{1}{4}$ oz., 35c.

LINARIA (Toad Flax, miniature snap). (a). Pkt., 15c; $\frac{1}{4}$ oz., 35c.

- 4600 Fairy Bouquet, Compact 8", pastel shades.
 4610 Diadem, dark blue, white eye. 12".
 4614 Ruby King. 12". 4612 Golden Gem. 12"
 4616 Maroccana Hybrida Excellsior Mixed.

LINUM (Flowering Flax). Pkt., 15c; $\frac{1}{4}$ oz., 25c.

- 4630 Grandiflorum Rubrum (Scarlet Flax). (a). 16".
 4632 Perenne (Perennial Flax) blue. (p). 20".

LOBELIA. (a).

Choice bedding and border plants working in well with Alyssum and the other edging plants. Give a mass of blue throughout the season.

Compacta. Pkt., 25c.

- 4654 Blue Gown, deep clear blue.
 4656 Blue Stone, mid-blue. 4".
 4642 Crystal Palace, dark blue.
 4638 Mrs. Clibran, deep blue, white eye.

LUPINS ANNUAL. (a). Pkt., 10c; $\frac{1}{4}$ oz., 25c.

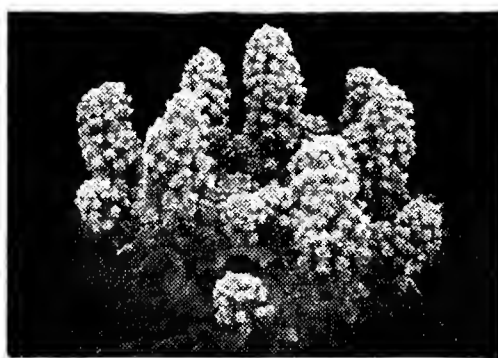
Hartwegi

- 4670 Giant King Blue.
 4686 Rose. 4688 Sky Blue. 4690 White.
 4672 Giant King White. 4694 Finest Mixed.

MARVEL OF PERU (Four O'Clocks). (a).

Pkt., 10c; $\frac{1}{4}$ oz., 25c.

- Tall** 4870 Red. 4872 Rose. 4876 White.
 4880 White striped yellow. 4882 Yellow.
Dwarf 4888 All colors mixed.



Mignonette

MIGNONETTE (Reseda Odorata). (a).

Pkt., 10c; $\frac{1}{4}$ oz., 25c.

- 4926 Giant White.
 4930 Golden Queen, compact bedding.
 4932 Odorata Grandiflora.
 4938 Special Mixture. Large Flowering sorts.

Matchet. Pkt., 15c; $\frac{1}{4}$ oz., 40c.

- 4942 Bismark, Extra large spikes.
 4946 Golden Goliath, true gold.
 4948 Goliath Red, large. 4954 White, selected.
 4956 Extra select Giant Flowering.
 4958 Special Mixture, all Matchet varieties.

MYOSOTIS ALPESTRIS (Forget-me-not). (b).

Pkt., 15c; $\frac{1}{4}$ oz., 35c.

- 4976 Blue. 4978 Mixed.

NASTURTIUM

The development of sweet scented strains has given these most popular flowers a new place in the garden. They are especially adapted to growth in poorer soils tending to produce leaves at the expense of flowers in rich soil and during wet seasons. Soaking the seed or clipping the hard coat will hasten germination.

Double Sweet Scented Gleam. (af). Trailing. Pkt., 15c; 1 oz., 25c; $\frac{1}{4}$ lb., 50c.

- 5000 Golden Gleam. 5010 Scarlet Gleam.
 5008 Indian Chief, brilliant red.
 5018 Mahogany, dark mahogany red.
 5040 Salmon Gleam.
 5050 Glorious Gleam Hybrids, Mixed.

Dwarf Double Sweet Scented. 12" to 15". Pkt., 25c; 1 oz., 40c.

- 5060 Golden Globe. 5076 Scarlet Gem.
 5062 Mahogany Gem, deep mahogany.
 5078 Gem Mixed.

Lobb's Trailing and Tall. Pkt., 15c; 1 oz., 25c.

- 5208 Special Mixture, single.

MARIGOLD

Vastly improved during the past few years this important flower class is more desirable than ever before. Many varieties are valuable for cut flowers as well as for the color they add in the garden late in the season. *Desirable for greenhouse culture.

Novelty Strains. (a).

- 4982 Early Dixie Sunshine Sunrise. Pkt., 25c.
- 4984 Chrysanthemum Flowered hybrids. Pkt., 15c.*
- 4786 Yellow Supreme, creamy lemon yellow, carnation flowered. Pkt., 10c.*
- 4792 Colarette Crown of Gold, odorless foliage. Pkt., 15c.
- 4798 Harmony, Dwarf French Double, golden yellow, maroon border. Pkt., 15c.
- 4998 Gigantea Sunset Giants, sweet scented. Pkt., 15c.*
- 4988 Gigantea Full Db1. Orange.* **New.** Pkt., 25c.
- 4986 Gigantea Full Db1. Mixed.* **New.** Pkt., 25c.
- 5084 Ferdinand, Harmony type tall single.* **New.** Pkt., 25c.
- 5094 Harmony Hybrids, dwarf double Harmony type.* **New.** Pkt., 25c.



Marigold
Sunset Giant



Marigold
California Double

California Double. Early and free flowering, fully double, wavy petals. Pkt., 25c; 1/4 oz., 50c.

- 4718 Golden Dawn, soft light orange.
- 4720 Moonbeam, clear lemon yellow.
- 4724 Sunshine Mixture, all ruffled sorts.

Guinea Gold. 4790 Re-selected strain, orange, loosely flowered. Pkt., 15c; 1/4 oz., 30c.*

French Dwarf Double (Monarch Strain). Pkt., 15c; 1/4 oz., 35c.

- 4794 Golden Ball.
- 4796 Finest Mixed.

French Dwarf Double. Pkt., 15c; 1/4 oz., 25c.

- 4822 (10") Golden Ball, golden orange.
- 4824 Golden Yellow.
- 4832 Yellow and Mahogany, stiped.
- 4838 Finest Mixed.

French Dwarf Single. Pkt., 15c; 1/4 oz., 25c.

- 4844 Fire Cross.
- 4846 Gold Star, maroon stripe.
- 4848 Legion of Honor.
- 4858 Finest Mixed.



Marigold Dwarf
French Double

Tagets Signata Pumila. Pkt., 25c; 1/4 oz., 50c.

- 4862 Golden Orange, 10".
- 4864 Golden Gem, deep golden orange, 10".
- 4890 Gnome, large flowered golden yellow, 6".

NICOTIANA AFFINIS (Sweet Scented Flowering Tobacco). (af).

- 5280 Crimson Bedder, compact deep crimson. Pkt., 25c; 1/8 oz., 50c.
- 5286 White, 3 ft. Pkt., 15c; 1/4 oz., 25c.
- 5288 Hybrids. Pkt., 15c; 1/4 oz., 25c.

NIGELLA DAMASCENA DOUBLE. (a). Pkt., 10c; 1/4 oz., 20c.

- 5300 Miss Jekyll (Love in a Mist) Cornflower blue.
- 5308 Mixed.

NIEREMBERGIA (a).

Of all the new introductions of recent years, this has received widest acceptance. It is a delightful bedding and border plant with beautiful lavender flowers.

- 5298 Hippomanica, lavender dwarf. Excellent bedders. 100 seeds, 25c.

OENOTHERA (Evening Primrose).

- 5324 Lamarckiana (Evening scented Primrose). (b). yellow, 3'. Pkt., 15c; 1/4 oz., 25c.

PANSY (Heart's Ease). (p). Pkt., 50c.

- 5340 Engelmann's Special Scottish Show type, immense flowers, bronze and reddish shades, compact, early; originator's seed.
- 5342 Englemann's Giant, dark and light shades mixed.

Swiss (Roggli's) Giant. Pkt., 50c.

- 5352 Extra Finest Mixed.
- 5374 Dwarf Swiss (Roggli's) Giant Mixture.

PETUNIAS (a)

Probably the most important flowers in the garden today. Petunias produce a constant array of beautiful blooms from early summer until killed by frost and require little care and attention. An occasional spraying to control insects and food and water is all that is needed.

Small Flowering Bedding. Pkt., 25c; 1/4 oz., 50c; except as noted.

- 5458 Martha Washington, blush pink, ruffled. Pkt., 50c.
- 5464 Brilliant Rose Gem (new). Pkt., 50c.
- 5480 Alderman, deep violet.
- 5482 Blue Bedder, mid blue.
- 5516 Snow Queen, large flowers.
- 5484 Celestial Rose, deep rose.
- 5498 Rose of Heaven. 5500 Rosy Morn (select).
- 5506 Silver blue. 5524 Twinkles, brilliant rose.

Balcony (Hybrida Pendula). Pkt., 25c; 1/8 oz., 60c.

- 5538 Rose. 5542 White.
- 5544 Black Prince, deep velvety red.
- 5546 Cornflower Blue, rich blue.
- 5548 Royal Blue. 5558 Finest Mixed.

Large Single Plain Edged. Pkt., 50c.

- 5732 Flaming Velvet, luscious velvety red.
- 5636 Elk's Pride, velvety purple.
- 5640 Pink Glory. 5650 Steel Blue.
- 5652 White Cloud.
- 5656 Burgundy, rich wine red, white throat.
- 5662 Snowstorm Improved, glistening white shading yellow in throat. Large flowers.
- 5664 Special Mixture Light Shades.



Phlox Drummondii

- PHLOX DRUMMONDI**
GRANDIFLORA (a).
 Pkt., 15c; $\frac{1}{8}$ oz., 35c.
 (Except as noted).
 5774 Alba Aculata, White,
 dark eye.
 5778 Dark Blue or Violet.
 5784 Flesh.
 5792 Rosea, Pink.
 5794 Brilliant, deep rose,
 dark eye.
 5800 Alba, pure white.
 5806 Finest Mixed.
 5812 Dwarf, very choice
 mixed.

5818 Gigantea Art Shades. Pkt., 25c; $\frac{1}{8}$ oz., 50c.

Phlox (p)

5814 Decussata, Finest Mixed from newest
 varieties. Pkg., 25c.

POPPY

The larger and the all double varieties of this
 old favorite make it even more showy than ever
 before. Poppies should be sown where they are
 to bloom as they do not stand transplanting well.

Double Cardinal Strain. (a). Dwarf form of carnation
 flowered poppy; large fully double flowers. Pkt., 15c; $\frac{1}{4}$ oz., 25c.

5880 Blush Pink. 5882 Chamois.

5884 Salmon Rose. 5888 White.

Peony Flowered. (a). 5932 Finest Mixed. Pkt.,
 10c; $\frac{1}{4}$ oz., 25c.

Double Shirley (a). Pkt., 10c; $\frac{1}{4}$ oz., 25c.

5948 Dazzler, orange scarlet.

5956 Sweet Briar, cerise rose.

5958 Eldorado mixed.

Single Shirley (a). Pkt., 10c; $\frac{1}{4}$ oz., 25c.

5970 American Legion, scarlet.

5980 Wild Rose, pink. 5986 Finest mixed.

Flanders. (a). 5998 Dwarf orange scarlet. Pkt.,
 10c; $\frac{1}{4}$ oz., 25c.

Nudicaule (Iceland poppy) (p).

5846 Sunbeam Hybrids mixed. Pkt., 25c.

5860 The Emperor, large flowered orange
 Pkt., 35c.

5862 The Empress, large flowered salmon rose
 shades. Pkt., 35c.

PORTULACA (moss rose). (ra).

6020 Grandiflora Double Mixed, extra select.
 Pkt., 25c.

6022 Double mixed. Pkt., 15c.

6024 Single mixed. Pkt., 15c.

QUEEN ANNE'S LACE FLOWER.

A most satisfactory filler for bouquets in a class
 where material for this purpose is very limited.
 The fine, white flowers are very attractive in their
 own right.

6070 White, 2'-2 $\frac{1}{2}$ '; fine cut flower filler. Pkt.,
 15c; $\frac{1}{4}$ oz., 25c.

RHODANTHE (Swan River Everlasting). (a).

6084 Maculata Mixed. Pkt., 15c; $\frac{1}{4}$ oz., 30c.

RUDBECKIA (Cone flower) (a). Excellent for
 cutting. Pkt., 15c; $\frac{1}{8}$ oz., 35c.

6126 Golden Sunset, golden yellow, mahogany
 zone. 18"-24".

6130 Kelvedon Star, dark golden yellow, dark
 mahogany zone.

6140 Hirta Autumn Tints, bronzy autumn
 shades.

3132 My Joy, orange yellow, dark zone, large
 flowers.

SALPIGLOSSIS EM-
PEROR (Painted Tongue).

(a). Pkt., 15c; $\frac{1}{8}$ oz., 25c.

6150 Brown and Gold.

6154 Crimson.

6158 Faust, black.

6160 Light Blue.

6166 Rose and Gold.

6168 Scarlet and Gold.

6170 Velvety red.

6172 Violet.

6174 Violet and Gold.

6176 White and Gold.

6178 Golden yellow.

6184 Finest Mixed.

6186 Gloxiniaflora. Mixed.



Salpiglossis

SALVIA SPLENDENS (Scarlet Sage). (a)
 Pkt., 25c.

6190 America (Globe of Fire), 16".

6196 Firebrand, early dwarf scarlet.

6202 Splendens (scarlet sage), 24".

Miscellaneous.

6218 Farinacea Blue Bedder. (p). 3 ft., Pkt., 25c.

STOCKS (Gilliflower) (a)

Stocks are among the most beautiful of our
 garden flowers. Unfortunately, they do not stand
 heat well and during hot summers may be disap-
 pointing. Seed early in the house or hotbed and
 plant in a rich soil where growth will be rapid.
 The double varieties always throw some singles
 but 60-70 percent should come double. The vari-
 eties listed are especially fine for cut flowers.

For Outdoor or Greenhouse Culture.

Double, Large Flowering, Dwarf Ten Week, fine
 for bedding. 12". Pkt., 25c; $\frac{1}{8}$ oz., 50c.

6486 Bright Pink or Rose. 6492 Canary Yellow.

6502 Crimson. 6524 Purple or dark blue.

6514 Light Blue. 6528 White.

6536 Finest Mixed.

Double Early Giant Imperial (Improved Bismark)
 (af). Branching habit, large flowers, long
 stems, early. Pkt., 25c; $\frac{1}{8}$ oz., 65c.

6642 Blood Red.

6648 Canary Yellow.

6650 Chamois, ivory tinted rose.

6654 Dark Blue or purple.

6656 Elk's Pride, royal purple.

6660 Flesh, bright flesh.

6666 Lilac or light blue.

6670 Old Rose. 6676 Shasta, glistening white.

6688 Finest Mixed.

Non-branching, fine for cut flowers. Pkt., 25c.

Gr 41 Lilac Lavender.

Gr 43 Ball Blue.

Gr 45 White Improved.

Gr 47 Gold Standard.

Gr American Beauty.

Gr Chamois Pink.



Scabiosa
Imperial Giants

SCABIOSA (Old Maid's Pin-cushion or Mourning Bride). Pkt., 15c; $\frac{1}{4}$ oz., 25c.

- 6246 Ageratum Blue, mid blue.
6248 Azure Fairy, a z u r e blue.
6250 Black Prince, purple.
6256 Coral Pink.
6260 Fire King, fiery scar-let.
6266 Loveliness, s a l m o n rose shades.

- 6268 Peach Blossom. 6270 Rose.
6272 Shasta, pure white, very large.
6274 Yellow, sulfur yellow.
6280 Finest mixed.
8140 Imperial Giants Blue Moon (new) Ex- tremely large, long stems, plants 42" to 48" tall. Pkt., 30c; $\frac{1}{8}$ oz., 60c.

STATICE Sinuata. (af). Pkt., 10c; $\frac{1}{2}$ oz., 25c.

- 6442 Kampf's Tall Improved, blue.
6446 Rosea Superba. 6450 Snow White.
6456 Yellow.
6468 Tom Thumb Hybrids, excellent bedding and border plants. Fine color range. 12" to 15".

SANVITALIA PROCUMBENS. (See page 20 following Zinnia)

SWEET PEAS, Early Flowering Spencer. (a). $\frac{1}{2}$ oz., 25c; 1 oz., 45c; $\frac{1}{4}$ lb., \$1.40.

- 6872 Ball's Orange, rich orange.
6868 Ball's Rose Improved, cerise pink, large flowered.
6892 Boon, deep coral pink.
6956 Harmony, clear lavender.
6852 American Beauty, rich crimson rose.
6854 Amethyst, reddish purple.
6860 Apollo, soft salmon cerise.
6882 Bright Light, flaming scarlet.
6908 Eleanor, silver blue.
6980 Laddie Improved, long stemmed giant rose pink.
6994 Majestic Rose, brilliant rose pink, long stems.
7006 Mrs. Herbert Hoover, clear deep blue.
7008 Mrs. Kerr, salmon.
7026 Oriental, deep cream, large flowers.
7028 Othello, deep maroon.
7078 Princess Blue, rich Belladonna blue.
7132 Snow Queen, pure white. **New.**
7096 Triumph, lilac mauve.
7136 Extra Choice Mixed, well balanced of best colors.

Late Flowering Spencer (a).

- 7212 Chinese Blue, solid rich mid blue.
7286 Gigantic, best white.
7334 Highlander, large flowered clear lavender.
7446 Pinkie, large rose pink.
8272 Pinnacle, deep rose pink on white.
7574 Welcome, dazzling scarlet.
7606 Unrival'd Mixture, fine selection of largest and best.

TITHONIA (Golden Flower of Incus). (af).

- 7722 Speciosa Grandiflora Fireball (New). Pkt. 25c.

SWEET WILLIAM (Dianthus Barbatus). (b)

Pkt., 15c; $\frac{1}{4}$ oz., 25c.

Single

- 7680 Dark Crimson. 7686 Pink Beauty.
7688 Scarlet Beauty. 7690 White.
7694 Finest Mixed.

Double

7696 Finest Mixed.

Annual

7698 Finest Mixed.

VERBENA

TORENIA (Wishbone Flower). (gr, ra)) Pkt. 25c.

- 7720 Fournieri, Blue, 12".
7726 Hybrida. 7728 Pfitzer's Hybrids, large.

Hybrida Grandiflora (large) (a). Pkt., 25c.

- 9742 Brightness, bright rosy cerise scarlet, white eye. **New.**
7868 Lavender glory. 7878 Royale, blue.
7872 Luminosa, glowing pink.
7884 Violacea Stellata, violet.
7886 White, pure white. 7888 Crimson Glow.
7898 Finest mixed.

Hybrida Compacta Erecta. Very compact and dwarf. Pkt., 25c.

- 7902 Cameo Pink. 7904 Carmine Ball.
7906 Chamois, salmon buff.
7924 Snowball, pure white. 7926 Violet Bouquet.
7938 Finest Mixed.

VINCA ROSEA. (a).

Free blooming plants with very attractive foliage and delightful single flowers. Seeds germinate slowly and should be planted early.

Pkt., 15c; $\frac{1}{2}$ oz., 30c.

- 7970 Alba, pure white.
7972 Rose. 7978 Mixed.



Vinca Rosea

ZINNIAS

For Outdoor or Greenhouse Culture.

Only asters offer such a wide range of colors and such varied flower and plant types as zinnias. Thus they have many uses in the garden and are especially fine for cut flowers. Zinnias are easy to grow, being freer of the major ills so destructive to some of the other important flower classes.

Tall Large Flowered Types

Dahlia Flowered. Bodger's Gold Medal. 2½' to 3' tall. Fully double huge flowers, strong stems. Pkt., 15c; $\frac{1}{8}$ oz., 25c.

- 1258 Will Rogers, loveliest scarlet red.
1260 Canary Bird, yellow.
1262 Crimson Monarch.
1264 Dream, deep rosy lavender.
1266 Eldorado, salmon apricot.
1268 Exquisite, light rose.
1272 Golden Dawn, golden yellow.
1274 Golden State, orange yellow.
1276 Illumination, deep rose.
1278 Lemon Beauty.
1280 Luminosa, bright deep pink.
1282 Meteor, deep red.

Zinnias con't.—Dahlia flowered

- 1284 Old Gold, shades of gold.
- 1286 Old Rose, old rose shades.
- 1288 Oriole, orange and gold.
- 1290 Polar Bear, large creamy white.
- 1292 Purple Prince, deep purple.
- 1306 Gold Medal Finest Mixed.

Bodger's California Giants, 3' to 4' tall. Fine cut flower. Pkt., 15c; 1/8 oz., 25c.

- 1350 Brightness, bright pink.
- 1352 Cerise Queen, orange rose.
- 1354 Daffodil Improved yellow.
- 1356 Enchantress, light rose.
- 1358 Golden Queen, golden yellow.
- 1360 Grenadier, bright dark red.
- 1362 Lavender Queen, deep rosy lavender.
- 1364 Miss Willmott, soft pink.
- 1366 Orange King, orange scarlet.
- 1368 Orange Queen, golden orange.
- 1370 Purity, best white Zinnia.
- 1372 Rose Queen, deep rose.
- 1374 Salmon Queen, salmon rose.
- 1376 Scarlet Queen, deep scarlet.



Zinnia Super
Crown O'Gold
Pastel Tints

- 1378 Violet Queen, deep purple.
- 1380 Crimson Queen (new).
- 1386 Finest Mixed.

Super-Crown O'Gold.

- 1330 Pastel tints. Pkt., 30c.

Picotee. Pkt., 15c; 1/8 oz., 25c.

One of the best cut flowers.

- 1492 Golden Ray.
- 1520 All colors mixed.
- Pkt., 15c; 1/4 oz., 25c.

Quilled or cactus Flowered.

- Pkt., 15c; 1/4 oz., 40c.
- 1522 Victory Choice Mixed.
- 1524 Achievement Mixed.

Semi-Tall Medium Flowered Types

Fantasy. Pkt., 15c; 1/8 oz., 30c.

- 1336 Orange Lady, bright orange.
- 1342 Rosalie, deep rose.
- 1346 White Light, pure white.
- 1340 Wildfire, dazzling scarlet. **New.**
- 1344 Star Dust, golden yellow.
- 1348 Finest Mixed.



Zinnia Fantasy

Scabious Flowered. Resemble Scabiosa and Harmony Marigold. Pkt., 15c; 1/8 oz., 35c.

- 1470 Campfire, intense scarlet. **New.** Pkt., 25c.
- 1484 Mixture, bright shades.
- 1486 Autumn Tints.
- 1572 Sunburst (new). Pkt., 25c.



Zinnia Scabious
Flowered

- 1460 Spun Gold, buttercup. (new).
- 1466 Finest Mixed.

Dwarf, Small Flowered Types

Early Wonder. A new race of dwarf early flowering Zinnias. Pkt., 25c.

- 1506 Fandango, fiery salmon pink.
- 1508 Rose Pink. 1514 Padre, bright scarlet.
- 1510 Gypsy, deep orange. 1518 Finest Mixed.
- 1512 Fiesta, rich deep red.

Bodger's Improved Lilliput, Pompon or Baby Zinnias. Popular for cut flower. Strong stems, 1 1/2' to 2' plants. Pkt., 15c; 1/4 oz., 35c.

- 1390 Canary Gem, canary yellow.
- 1392 Crimson Gem. 1396 Golden Gem.
- 1398 Lilac Gem. 1400 Purple Gem.
- 1402 Rosebud, rose pink. 1406 Scarlet Gem.
- 1404 Salmon Gem, salmon rose.
- 1408 Valencia, burnt orange. 1410 White Gem.
- 1420 Pastel Mixture. 1422 Finest Mixed.
- 1494 Pink Gem.

Cupid, small button like flowers, dwarf, 1'. Pkt., 15c; 1/8 oz., 25c.

- 1430 Pixie, bright yellow.
- 1432 Tiny Tim, rich scarlet.
- 1434 Snowdrop, pure white.
- 1436 Finest Mixed.

Gracillima (Red Riding Hood). Pkt., 15c; 1/8 oz., 25c.

1426 Miniature Deep Scarlet.

Lilliput Tom Thumb, plants 4" to 6", covered with lilliput type flowers. Red, orange, yellow, pink, rose, and pastel shades. Excellent for border use.

- 1438 Finest Mixture. Pkt., 15c; 1/8 oz., 25c.

Haageana Double (Mexican Hybrids). Good for bedding or small cut flowers. Pkt., 15c; 1/8 oz., 25c.

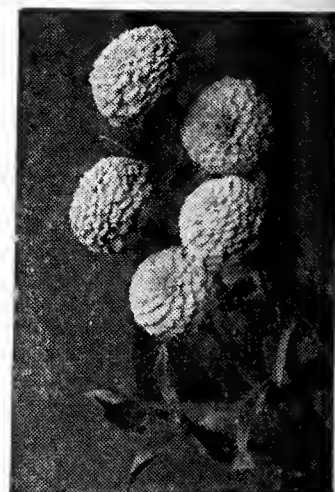
- 1490 Finest Mixed.

Linearis. Pkt., 15c.

- 1592 Orange, dwarf compact, early flowering, single flowers.

Sanvitalia Procumbens, creeping Zinnia, low border plant.

- 6230 Double. Pkt., 15c.



Zinnia Lilliput

Quality Lawn Seeds

ITS
WELL TO
KNOW

PREPARING THE NEW SEED BED

The future excellence of the lawn depends largely upon whether the permanent level of the surface is secured before the seed is sown. After the soil is pulverized it should be allowed to settle for several

days or should be rolled heavily to establish the high and low areas, which then should be leveled. An approximate level of the new surface should always be obtained *before* peat moss, sand, plant food, or other materials are incorporated in the soil. After these materials are thoroughly incorporated the area should be raked carefully to produce a perfectly level surface.

MISCELLANEOUS LAWN SEEDS

	1 lb.	5 lbs.	10 lbs.	25 lbs.	50 lbs.
Kentucky Blue Grass					
21 lb. per bu. 85% purity	35c	\$1.60	\$3.00	\$ 7.15	\$14.00
24 lb. per bu. 90% purity	45c	2.25	4.20	9.50	17.50
28 lb. per bu. 98% purity	50c	2.50	4.90	11.75	22.50
Red Top 95% purity	30c	1.35	2.50	5.75	10.00
98% purity	40c	1.90	3.60	8.75	17.00
Astoria Bent (Blue Tag)	\$1.15	5.50	10.75	25.00	
Seaside Creeping Bent (Blue Tag)	\$1.10	5.25	10.25	23.75	
Poa trivialis (Rough Stalked Meadow) 85% purity	65c	3.10	6.00	13.75	25.00
90% purity	70c	3.40	6.60	16.25	31.50
98% purity	75c	3.65	7.20	17.75	36.00
Poa Annua (Annual Blue Grass)	90c	4.45	8.50	20.75	
Canada Blue Grass, excellent for paths	45c	2.20	4.20	10.00	18.50
Chewing's Fescue (New Zealand grown) 99% purity	99c	4.10	8.00	19.50	38.50
Meadow Fescue, Not suitable for lawns	25c	1.10	1.90	4.00	7.00
Domestic Rye Grass (Suitable only as nurse grass)	25c	1.10	2.00	4.00	7.00
White Clover (99% purity)	85c	4.10	8.00	19.50	38.00

HOW TO SEED THE LAWN

To secure an even stand of grass of uniform texture sow one half the seed in one direction and the balance in a direction at right angles to the first. Distribute the seed from as close to the ground surface as possible, preferably through a distributor such as the Permalawn Master Distributor, to avoid separation of the seeds of different weights. Seed lightly rather than heavily for the best permanent results.

CORRECT RAKING IMPORTANT

Equally as important as even distribution is the method of covering the seed to obtain good germination. The garden rake should be *pushed* across the surface, teeth down and with no pressure on the handle. The rake should not be pulled, nor pushed and pulled, as this will always produce patchiness. Mulch the surface lightly with peat moss, roll heavily, soak deeply and keep moist several weeks until all seed has germinated.



➔ The cost of good seed is the smallest part of the cost of a new lawn.

NEW LAWNS FROM OLD

A lawn gets shabby only because of neglect and will take on new life and vigor if given proper attention. The program can be carried out most effectively in the spring or early fall, the grass being in the most responsive condition during those periods.

The first step should be the removal of weeds which may be present and the leveling of the surface with top soil if necessary. Then the lawn should be given a good feeding. This will cause the old grass to start new growth and to stool or spread out, with the production of a noticeably thicker and stronger turf. This method is much more effective than a general reseeding without the use of plant food.

SEEDING BARE AREAS

Bare areas can be prepared for seeding most effectively by running the Spike Disc forward and back across them until the soil is loosened sufficiently to provide a cover for the seed and a foothold for the young grass. This method generally will be found more satisfactory and more economical

than to cover the areas with new soil. Better results may be expected if peat moss is spread on the surface, one bale to 1000 sq. ft. of area.

Many a good lawn is ruined by improper clipping. Cut at a height of 1¼ to 1½ inches spring, summer, and fall.

PERMALAWN

PERMALAWN SEEDS

Permalawn Seeds contain only the highest quality Kentucky Bluegrass, New Zealand Chewing's Fescue, Poa trivialis, Astoria Bent, and Red Top seed, blended in scientifically correct proportions to produce beautiful and permanent lawns in their respective growth situations. For your protection, only heavy, mature seeds of highest purity and germination, and lowest weed seed content are used in blending Permalawn Seeds.

PERMALAWN SUNNY: Produces a most beautiful, velvety, permanent lawn. (If desired without Astoria Bent, so specify). 1 lb., 55c; 5 lbs., \$2.75; 10 lbs., \$5.40; 25 lbs., \$13.00; 50 lbs., \$25.50; 100 lbs., \$50.00.

PERMALAWN SEMI-SHADY: A combination of the Permalawn Sunny and Shady formulae. 1 lb., 70c; 5 lbs., \$3.50; 10 lbs., \$6.90; 25 lbs., \$17.00; 50 lbs., \$33.00; 100 lbs., \$65.00.

PERMALAWN SHADY: Contains 60 per cent of Chewing's Fescue and Poa trivialis combined. 1 lb., 75c; 5 lbs., \$3.75; 10 lbs., \$7.40; 25 lbs., \$18.25; 50 lbs., \$35.50; 100 lbs., \$70.00.

PERMANENT TURF GRASSES

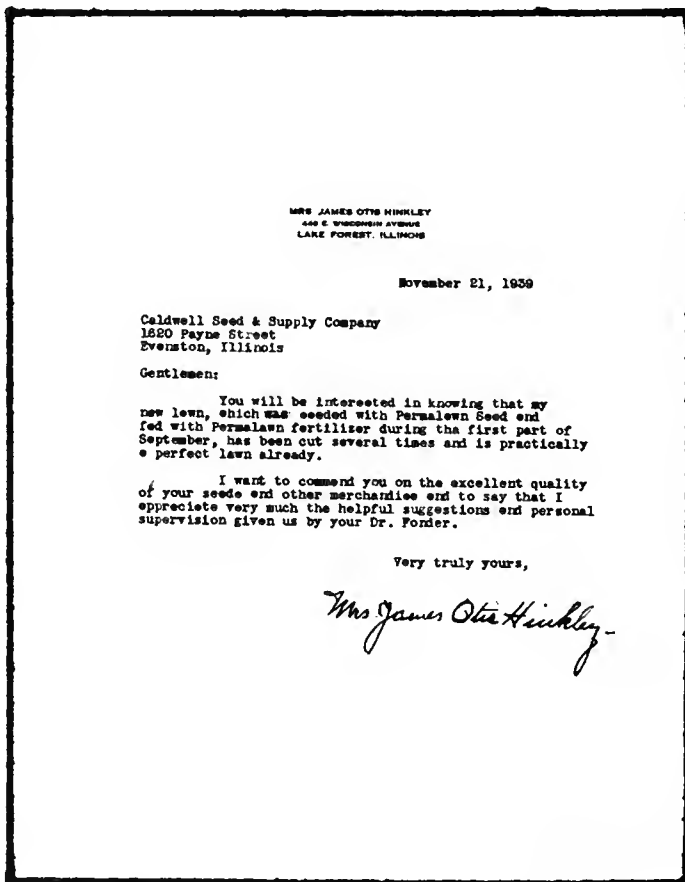
Only a limited number of grasses are suitable for lawn purposes in the northern part of the United States. These include (1) Kentucky Bluegrass, (2) New Zealand Chewing's Fescue, (3) Poa trivialis (shade only), and (4) the various bent grasses. These are permanent grasses, fine in texture, beautiful in color, and any good lawn seed blend must be built around them.

SEED BLENDS

Better results will be secured if the turf grasses, which germinate slowly and grow slowly when young, are sown in conjunction with quick germinating and rapid growing nurse grasses, such as Red Top and Rye Grass, but the proportion of the seeds of the nurse grasses must be small as otherwise they will crowd out the turf grasses instead of helping them develop. Permalawn Sunny and

Semi-Shady blends contain only 25 percent of Red Top and Permalawn Shady but 20 percent.

Lawn seed mixtures cannot be judged on the basis of "quick" results. The "four day" lawn will usually be a temporary lawn.



**Permalawn
Service**

We offer our patrons the most complete and effective Lawn Service available.

RESULTS PROVE ECONOMY

Superior

LAWN SEEDS

WHERE TO USE

Sunny Seed:

Areas in full sunlight.
Areas in sun at high noon.

Semi-Shady Seed:

Areas in full morning sun.
Areas in light shade.

Shady Seed:

Areas in moderate shade.
Areas in early morning and late afternoon sun.

A beautiful lawn does not just happen—it is made with good seed and years of proper care.

GOOD VENTILATION IMPORTANT

Lawn grasses grow better in extensive areas where the air has an opportunity to move freely across them than in restricted and poorly ventilated locations. To wall in a lawn area or plant a heavy screening border of shrubs, which frequently reaches to the bottom branches of an already existing circle of trees, is to shut out the beneficial air currents which dry the grass of dew before the heat of day and aid in proper cooling of the plants. Under such conditions a general weakening of the grass may always be expected and in very hot and humid periods during the summer it is usual for damage due to overheating, scald, brown patch, and leaf spot to be much more severe than in areas where ventilation is not interfered with.

A WISE PRECAUTION

The incorporation of the correct Permalawn Plant Food in the seed bed before sowing will cause the young plants to grow vigorously and lessen the danger of damage from heat for the spring seeding and of winter injury for the fall seeding. This simple precaution may mean the difference between success and failure.

SEED LIGHTLY

It is better to sow too little seed than too much, with its resultant crowding-out of the desirable turf grasses. Permalawn Seeds should be seeded at the rate of 4 pounds per 1000 square feet in sunny areas, 5 pounds per 1000 square feet in semi-shady areas, and 6 pounds per 1000 square feet in shady areas.

QUALITY LAWN SEEDS

CALDWELL QUALITY LAWN SEED: Second in quality to Permalawn but superior to the so-called "quality" seeds usually offered at about the same prices. These blends are of an excellent grade and are recommended where the superior quality of Permalawn is not essential.

Caldwell Sunnylawn:

1 lb., 50c; 5 lbs., \$2.40; 10 lbs., \$4.70; 25 lbs., \$11.75; 50 lbs., \$22.00; 100 lbs., \$44.00

Caldwell Shadydawn:

1 lb., 60c; 5 lbs., \$2.90; 10 lbs., \$5.70; 25 lbs., \$14.00; 50 lbs., \$27.00; 100 lbs., \$54.00

NORTH SHORE BRAND Lawn Seed: Prepared from the same quality seeds as Caldwell Quality but contains Rye Grass as one of the nurse grasses. A good seed where a quicker cover is desired without sacrificing the future quality of the lawn.

North Shore Sunny:

1 lb., 40c; 5 lbs., \$1.90; 10 lbs., \$3.70; 25 lbs., \$9.00; 50 lbs., \$17.50; 100 lbs., \$34.00

North Shore Shady:

1 lb., 55c; 5 lbs., \$2.70; 10 lbs., \$5.30; 25 lbs., \$13.00; 50 lbs., \$25.50; 100 lbs., \$50.00

SUNNY LANDSCAPE—Special mixture blended for landscape architect desiring a good grade of seed at a competitive price. This mixture will give quicker results, but will produce good permanent lawns. 1 lb., 25c; 10 lbs., \$2.30; 25 lbs., \$5.50; 50 lbs., \$10.00; 100 lbs., \$20.00

Permalawn Plant Foods

Provide Balanced Diets

SCIENTIFICALLY COMPOUNDED

WHAT THEY ARE

Permalawn Plant Foods are carefully prepared in accordance with the best scientific principles and the most advanced methods. Quickly available plant food materials are combined with a vegetable meal to provide hungry plants with both an immediate and a longer lasting supply of food. Soluble iron, manganese, and the other trace elements make Permalawn a complete diet, now in granular form.

FEEDING DEVELOPS FULL BEAUTY

A really fine lawn can be secured only if a scientifically correct feeding program is followed. Such a program enables the grasses to grow vigorously, causing the lawn to become thicker and more beautiful each year. A properly fed lawn becomes green earlier in the spring and remains so later in the fall, giving pleasure for a longer period each year.

WHEN TO FEED

The lawn grasses usually grow vigorously only from early April to late June and from late August until late October, periods when weather conditions are most favorable. An abundance of plant food should be available during these periods to bring the food supply into balance with the favorable weather conditions.

The correct Permalawn Plant Food applied at the beginning of each of these growth periods, in the spring just after the grass starts growth and in the fall after the hottest part of the summer is past, will usually nourish the grass effectively to the end of the growth period. If feeding appears advisable during the summer, Permalawn Soluble Plant Food will be found excellent.

PLANT FOOD BALANCE IMPORTANT

The fertilizer analysis used should be such that it will create the proper balance of plant food elements in the soil. In general, heavy soils require plant food higher in nitrogen than do sandy soils. But even on a heavy soil it is advisable to avoid the use of too high a proportion of nitrogen, which may force the top growth too greatly and produce a weak root system. If in doubt, ask for a soil analysis.

Dear Sir:—I have been using Permalawn Plant Food for several years and have found it to be a most valuable and economical fertilizer. It has given me a very fine lawn and has helped me to save a great deal of money in the purchase of other fertilizers. I am sure that you will find it to be a most valuable and economical fertilizer for your lawn.

EVANSTON GOLF CLUB
EVANSTON, ILLINOIS
September 22, 1939
Mr. J. F. Pender
Permalawn Plant Food Co.
1111 North Dearborn St.
Chicago, Ill.
Dear Sir:—I have been using Permalawn Plant Food for several years and have found it to be a most valuable and economical fertilizer. It has given me a very fine lawn and has helped me to save a great deal of money in the purchase of other fertilizers. I am sure that you will find it to be a most valuable and economical fertilizer for your lawn.

USERS LIKE PERMALAWN PRODUCTS THEY DO PRODUCE GOOD RESULTS

GRASSES MAKE OWN ORGANIC MATTER IN THE SOIL IF PROPERLY FED

Treatment	Soil Organic Matter
Not Fed Inorganic Fertilizer	After 42 years cropping at Rothamsted, England 37,749 lbs. per Acre 51,528 lbs. per Acre U.S.D.A. Bul. 106
Not Fed Inorganic Fertilizer	After 15 years cropping at West Virginia 41,241 lbs. per Acre 117,910 lbs. per Acre West Virginia Bul. 160

We believe ordinary fertilizers are worth the price asked for them and that they would be made better but for the extra cost involved. We feel this extra cost is justified in making Permalawn Foods Better.

5-10-6
Permalawn Plant Food (5-10-6)—5% avail. nitrogen, 10% avail. phos., 6% avail. potash. A complete plant food of moderate balance for general use throughout the garden. Recommended especially for flowers and vegetables, either in the garden or greenhouse, and for lawns on light soils or in shaded, enclosed areas. Apply 30 to 40 pounds per 1000 square feet. 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.00; 2000 lbs., \$70.00.

8-8-4
Permalawn Plant Food (8-8-4)—8% avail. nitrogen, 8% avail. phos., 6% avail. potash. A complete plant food formulated especially for lawns. Recommended particularly for lawns on the heavier soils and in open areas where it produces excellent turf with a strong and vigorous root system. Apply 25 to 35 pounds per 1000 square feet. 25 lbs., \$1.75; 50 lbs., \$2.65; 100 lbs., \$4.25; 1000 lbs., \$40.00; 2000 lbs., \$75.00.

TREE FEEDING

"The most important phase of tree care", Missouri Botanical Garden, Bul. No. 4, 1936.

Feeding not only makes trees more beautiful but helps them in their fight against diseases, insects, prolonged periods of drought, and winter injury.

"The only occurrence of winter injury was with trees in extremely low nutritive condition and none occurred with late fertilization". N. C. Exp. Sta. Bul. No. 322.

Trees may be fed at any time during the year and fall feeding is as effective as that done in the spring.

"Fertilizer applied in the fall after the leaves had dropped produced a response in growth approximately equivalent to the same rates of application in March—". N. C. Agri. Exp. Sta. Bul. No. 321.

"Trees require large amounts of food and cannot be overfed".—Missouri Botanical Garden Bul. No. 4, 1936.

10-8-6

Permalawn Tree Food (10-8-6)—10% avail. nitrogen, 8% avail. phos., 6% avail. potash. A complete plant food of the most widely approved analysis specially prepared to feed trees better. Permalawn Tree Food contains sufficient soluble iron, manganese, and the other trace elements to meet the requirements of trees except where bad cases of chlorosis exist, when additional soluble iron should be used. The organic matter in Permalawn Tree Food prevents the formation of the insoluble "plug" characteristic of ordinary tree foods. Allow 4 pounds per inch of diameter of tree trunk for small and medium sized trees and 6 pounds per inch of diameter for larger trees. 50 lbs., \$2.75; 100 lbs., \$4.50; 1000 lbs., \$42.50; 2000 lbs., \$80.00.

18-12-6

Permalawn Soluble Plant Food (18-12-6)—18% avail. nitrogen, 12% avail. phos., 6% avail. potash. A concentrated and completely soluble plant food prepared especially for the liquid feeding of trees, lawns and golf greens. Works perfectly in the power sprayer, Fertigator, or other liquid tree feeding device or through any suitable proportioner. Lawn feeding tests have demonstrated that this plant food is not only quick acting but it is also long lasting. For trees, dissolve 1 lb. per gallon of water and inject into the soil. 100 lbs., \$7.00; 500 lbs., \$34.00; 1000 lbs., \$60.00.

PERMALAWN SUPERIOR

PLANT FOODS

PREFERRED WHERE RESULTS MEAN MOST

Miscellaneous Fertilizers

Adco—For use in the compost pile to hasten rotting of leaves and other plant materials. 150 pounds makes 4 tons of rotted compost. 7½ lb. bag, \$1.00; 25 lb. bag, \$2.50; 150 lb. bag, \$11.50.

Balanced Plant Ration (5-8-7)—A balanced fertilizer composed chiefly of organic matter and potash which has long been popular in the garden. Use 35 to 40 pounds per 1000 sq. ft. 50 lbs., \$2.50; 100 lbs., \$4.10; 1000 lbs., \$37.00.

Bone Meal—Steamed regular. (2-27-0) 25 lbs., \$1.40; 50 lbs., \$2.35; 100 lbs., \$3.75; 500 lbs., \$16.50; 1 ton, \$63.00.

Bone Meal—Raw. (3¾-20-0) 100 lbs., \$4.15; 500 lbs., \$19.00; 1000 lbs., \$37.00; 2000 lbs., \$70.00.

Bone Meal—Rose Grower. (3¾-20-0). 100 lbs., \$4.15; 500 lbs., \$19.00; 1000 lbs., \$37.00; 2000 lbs., \$70.00.

Blood and Bone Meal—(8-20-0) Quicker acting and a better balance than bone meal. Contains 30 percent more nitrogen than ordinary Blood and Bone meal. 100 lbs., \$4.80; 500 lbs., \$23.00; 1000 lbs., \$42.00; 2000 lbs., \$78.00.

Blood Meal—(13½-0-0) Excellent source of organic nitrogen. 100 lbs., \$7.00; 500 lbs., \$33.00; 2000 lbs., \$130.00.

Chicagrow—(4½-2-0) Produced by the Chicago Sanitary District in its disposal of sewage. Apply 50 or more pounds per 1000 square feet. 100 lbs., \$2.20; 1000 lbs., \$16.00; 2000 lbs., \$31.00.

DAHLIA FERTILIZERS

1. **Permalawn Plant Food (5-10-6)**—Except where tests show an abundance of nitrogen, this plant food will give excellent results. (See pages 24 and 25).

2. **Badger Brand (0-20-10)** (Same as 0-14-7 but more concentrated) — Recommended where soil contains enough nitrogen to produce full sized plants. (Test your soil) 100 lbs., \$3.25.

Ferrous Sulfate—Valuable for acidifying soil and also an important plant food. Better and safer to use than Aluminum Sulfate. 100 lbs., \$3.75; 500 lbs., \$17.00.

Lawn Food—Badger Brand Fairway (6-12-4). A special grade of plant food prepared for the feeding of golf fairways and large lawn areas where economy is essential. 100 lbs., \$3.50; 1000 lbs., \$33.00; 2000 lbs., \$64.00.

Lawn Food—Badger Brand (10-8-6). For golf greens and large lawn areas. This fertilizer is relatively dustless and granular and contains a substantial amount of organic and nitrate nitrogen. 100 lbs., \$3.75; 1000 lbs., \$35.00; 2000 lbs., \$68.00.

Lime—Agricultural (Ground Limestone). Finely divided and most desirable form of lime for correcting acidity. Will not make soil alkaline. 100 lbs., \$1.50; 500 lbs., \$5.00; 2000 lbs., \$13.50.*

Lime—Hydrated. Stronger than ground limestone and quicker acting but liable to make soil alkaline if used in excess. 50 lbs., \$1.25; 100 lbs., \$2.00.

Manure—Pulverized cattle. (2-1-1) 100 lbs., \$2.50; 500 lbs., \$11.00; 1000 lbs., \$17.75; 2000 lbs., \$34.50.*

Manure—Pulverized sheep. (2-1-2) 100 lbs., \$2.50; 500 lbs., \$11.00; 1000 lbs., \$17.75; 2000 lbs., \$34.50.*

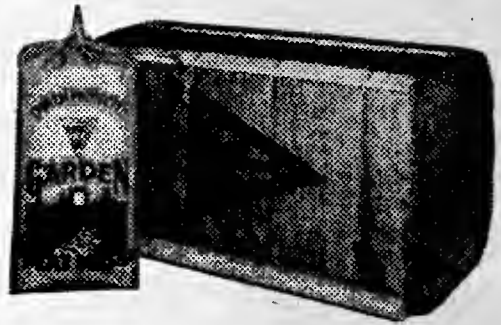
Milorganite—Organic material produced from city sewage by the Sewerage Commission of Milwaukee. Contains 6% total nitrogen and 2% phosphoric acid. 100 lbs., \$2.75; 1000 lbs., \$22.00; 2000 lbs., \$42.00.

Muriate of Potash (0-0-50)—50 lbs., \$2.50; 100 lbs., \$3.85; 500 lbs., \$17.50.

Nitrate of Soda (16-0-0)—50 lbs., \$2.50; 100 lbs., \$3.75; 200 lbs., \$7.00.

Nitrophoska (15-30-15)—A highly concentrated fertilizer useful for liquid feeding of plants. 25 lbs., \$3.00; 50 lbs., \$5.50.

Peat Moss — Imported from Europe. Peat Moss is an important aid in better lawn making and should be incorporated in the soil around every newly planted



tree and shrub to stimulate root growth. Whenever possible, peat moss should be moistened before incorporation in the soil. 22 bu. bale, \$4.75; 10 bales, \$46.00.

Peat Moss—Domestic. 11 bu. bag, \$2.25; 2 bags, \$4.00; 10 bags, \$19.00.

Sorbex Moss Peat—Ideal for lawn dressing in re-seeding and for mixing with fertilizer in tree feeding. 1 bag to 500 pounds of plant food causes more rapid penetration of food materials into the soil and stimulates root growth. 1 bag (10 bushels), \$3.75. 10 bags, \$36.00.

Permalawn—See pages 24 and 25.

Sulfate of Ammonia (21-0-0)—Important source of quickly available nitrogen. Not recommended except in conjunction with carriers of other elements. 100 lbs., \$3.25; 1000 lbs., \$29.00.

Sulfur—Activated Soil Sulfur for acidifying soils. Oxidizes more quickly than ordinary sulfur. 100 lb. bag, \$6.00.

Superphosphate (0-20-0)—Important source of available phosphorus where economy is a factor. 100 lbs., \$2.50; 1000 lbs., \$17.00.

Treble Superphosphate (0-45-0)—Much more concentrated than Superphosphate. 100 lbs., \$5.50; 1000 lbs., \$47.50.

Tree Food—Permalawn—(see page 25).

Tree Food—Badger Brand (10-8-6). A moderately priced tree food of the conventional 10-8-6 analysis but of an improved formula. 100 lbs., \$3.75; 1000 lbs., \$35.00; 2000 lbs., \$68.00.

Vigoro—100 lbs., \$4.00; 500 lbs., \$20.00; 2000 lbs., \$80.00.

Vitamin B1—See page 44.

Prices on fertilizers are subject to market changes and our ability to secure materials and include delivery within 50 miles of Evanston or Chicago except where marked*, to which add delivery charges.

Proper fertilization is the most important single operation that can be performed anywhere in the garden. The soil is a good growth medium only when it contains an adequate supply of plant food materials in a soluble form. Through the years this supply becomes constantly smaller unless it is replenished. This is best done through the application of good fertilizers at proper intervals.

Aids to Better Tree Care

TREE SURGERY SUPPLIES

Double Galvanized Soft Tree Surgeon's Strand.



Seven wire cable of excellent quality made especially for tree surgery. This cable possesses great strength but is soft and pliable for easy splicing and handling. The uniform, double galvanizing gives much greater protection against weather than will be found with single galvanized cable.

Diam.	per 100 ft.	per 250 ft.	per 1000 ft.	Wt. 100 ft.
1/8 in.	\$1.25	\$3.00	\$11.62	6 lbs.
3/16 in.	1.50	3.25	12.75	8 lbs.
1/4 in.	2.10	4.55	17.62	10 lbs.
3/8 in.	3.90	8.80	34.50	29 lbs.



GALVANIZED THIMBLES

Size	One dozen	per 100	Wt. per 100
3/16 in.	\$.60	\$3.75	2.0 lbs.
1/4 in.	.60	3.75	4.0 lbs.
5/16 in.	.82	4.50	5.7 lbs.
3/8 in.	.90	5.25	8.8 lbs.

EYE AND EYE TURNBUCKLES



Diameter	Length Inside	Weight	Price
1/4"	4"	.3 lb.	\$.36
5/16"	4 1/2"	.6 lb.	.45
3/8"	6"	.8 lb.	.56



Lag Screw Hooks

Bright Zinc Plated

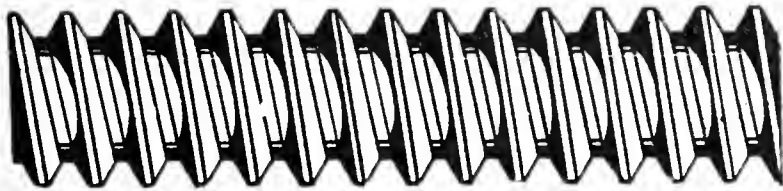
Special design with long hook stem bent parallel to threaded stem. Clean cut lag threads extending up the stem to line of hook to prevent loosening of cable. The uniform bright zinc plating gives long protection against rust. Made of special alloy steel of unusual strength.

Size	Each	per 100
1/4 in.	\$.075	\$ 5.25
5/16 in.	.08	6.00
3/8 in.	.10	7.50
1/2 in.	.15	12.00



Galvanized Clips

Diam.	Price per 100	Weight
3/16 in.	\$3.75	30 lbs.
1/4 in.	4.00	32 lbs.
5/16 in.	4.35	32 lbs.
3/8 in.	5.80	35 lbs.
1/2 in.	8.75	70 lbs.



Tree Rod

Bright Zinc Plated
12 ft. lengths

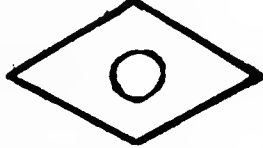
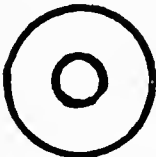
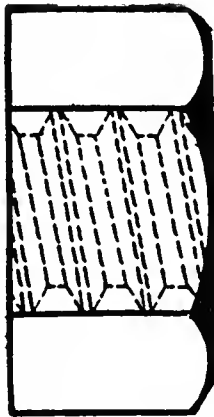
Made of special cold finished steel of high tensile strength. Smooth, clean cut lag threads full length gauged to take lag nuts of same size. Uniform bright zinc plating gives longer protection against rust.

Diam.	Wt.	Each	9 Lengths
1/2 in.	6.2	\$1.89	\$15.20
5/8 in.	9.4	2.55	22.95
3/4 in.	13.8	3.39	27.28
7/8 in.	18.5	4.11	33.37

Tree Rod Nuts

Bright Zinc Plated
Clean lag threaded to fit tree rod and lag hooks of same size

Size	Each	Per 100	Wt. Per 100
1/2 in.	\$.06	\$ 3.75	7.2
5/8 in.	.07	5.25	13.0
3/4 in.	.10	7.50	21.2
7/8 in.	.15	11.25	33.2



Tree Rod Washers

Bright Zinc Plated
Diamond

Size	Per Dozen	Per 100	Wt. Per 100
1/2 in.	\$.45	\$2.61	4.8
5/8 in.	.54	3.39	6.2
3/4 in.	.60	3.75	9.2
7/8 in.	.72	4.11	11.4
Round			
1/2 in.	\$.15	\$.75	3.8
5/8 in.	.27	1.35	7.7
3/4 in.	.30	1.89	11.0
7/8 in.	.39	2.70	15.5

Blocks

Oval steel blocks with bushed roller bearings and loose side hooks. These blocks are strong, light, and easy to handle among thick branches. For 1/2 inch rope, Single, \$1.25; Double, \$2.25; for 5/8 inch rope, Triple, \$3.50; other sizes available on special order.



Mallets

Weight	Size	Handle	Price
24 oz.	2-7/8" x 5-1/8"	14"	\$1.90
40 oz.	2-1/2" x 5-1/2"	13"	3.00



Miller Mallets will not crack, chip nor dry out, as do wood and rawhide mallets. Their laminated construction built into one piece by a special process, insures remarkable durability.

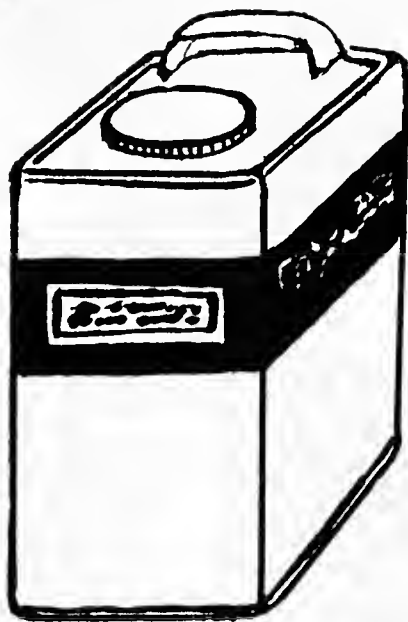
Aids to Better Tree Care

TREE SURGERY SUPPLIES

Protectree

TREE PAINT

A specially prepared tree paint containing a most effective fungicide which penetrates well and will not injure the cambium or other living tissue. Protectree spreads smoothly and produces a long lasting, water-proof, and pliant covering. It will not freeze and may be used at low temperatures. 1 gal. pail, \$1.50; 5 gal. pail, \$5.50.



Tree Paint—Asphalt Emulsion Thin only with clear water. 1 gal. pail, \$1.40; 5 gal. pail, \$5.00.

AN ANTIDESICANT

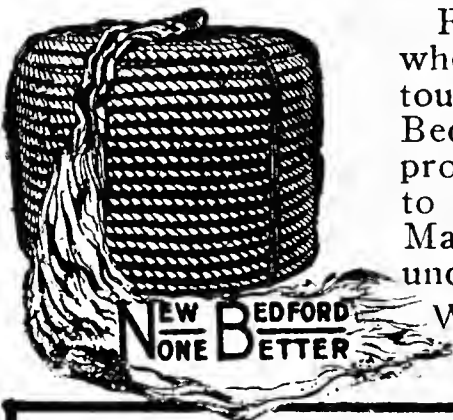
Dowax—An antidesicant which reduces the transpiration of moisture from plants when sprayed on the foliage. Its use on deciduous and evergreen trees and shrubs before storage and at the time of transplanting reduces loss and enables plants to become established more quickly. Dilute 1 gal. with 3 gal. water. 1 gal., \$2.15; 5 gal., \$9.35; 10 gal., \$15.40; 30 gal. drum, \$37.80. Prices F.O.B. Midland, Michigan. Shipping wt., 8 lbs. per gal.



NEW BEDFORD MARITIME MANILA ROPE

For nearly 100 years New Bedford rope has been the standard of quality wherever rope is most important. Made of 100% pure manila of extra long, tough fibres, this rope affords greater strength and longer life. Now, to New Bedford Rope is added the "Maritime" treatment, which affords complete protection to each individual fiber, making "maritime" rope highly resistant to water and rot proof, and adding to its strength and long life. "Maritime" Manila rope stays flexible, wet or dry, and does not twist or kink when used under adverse conditions.

Where safety of a man depends upon rope it is good judgement to use New Bedford "Maritime" Manila.



Diam.	Breaking Strength	Per 120 feet Price	Wt.	Coil 600 ft.	Coil 720 ft.
1/2 inch	2,650 pounds	\$3.35	9 lbs.	\$15.35	
5/8 inch	4,400 pounds	\$5.90	16 lbs.	-----	\$31.00
3/4 inch	5,400 pounds	\$7.20	20 lbs.	-----	\$38.90



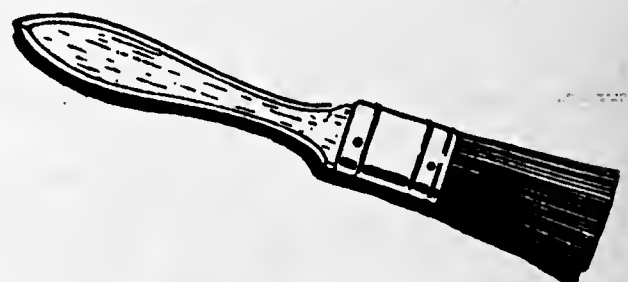
T R E E W R A P

Saxolin crinkled water-proof paper for spiral wrapping of young trees and newly planted smooth barked trees. Prevents sun cracks and entrance of borers. Four inch width, 155 ft. roll, 75c; 10 rolls, \$6.00; 8 inch width, 155 ft. roll, \$1.00; 5 rolls, \$4.33.

Grafting Wax—1 lb. bar, 63c; 5 lb. pkg., \$2.76 10 lb. pkg., \$5.25.

TREE SURGEON SHELLAC

A special grade shellac prepared by dissolving five pounds of shellac per gallon instead of four, as is standard for the paint trade. Gives better protection to the exposed cambium layer: 10 oz. bottle, 40c; 1/2 gal., \$1.80; 1 gal., \$3.09.



PAINT BRUSHES

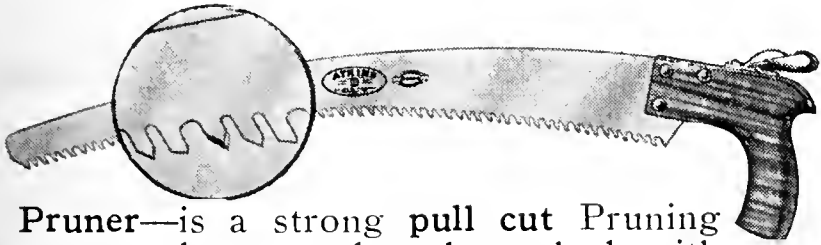
One inch width, of extra thickness for more rapid application of heavy paint; bristles vulcanized in rubber. Each, 10c; dozen, \$1.00.

PRUNING SAWS

Roberts Speed and Atkins Silver Steel

Roberts Speed saws have a new style of tooth which has been responsible for vastly increased speed in cutting green, dry, or soft wood. The teeth are grouped with two slicers and one planer tooth to each section. This tooth design permits fast, easy, and **smooth** sawing, either cutting off,

ripping, or mitering. Each saw is made of Atkins Silver Steel and measures up to the highest standard of quality in heat treating, grinding, balance, and perfectly shaped and seasoned hardwood handles. If you want speed sawing, try the Speed-saw.



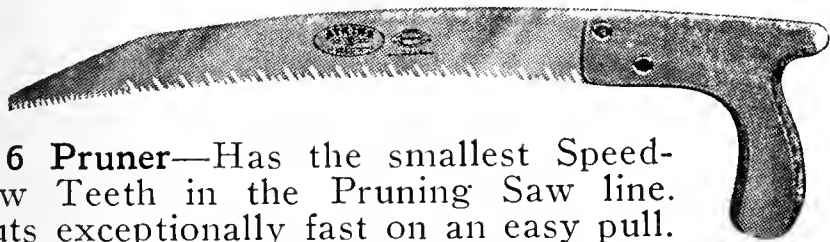
TR2 Pruner—is a strong pull cut Pruning Saw, properly ground and toothed with the right pitch, on curved blade. Pistol grip lacquered beech handle can be used with heavy mittens. Length, 24 inches. With snap—\$4.15; without snap—\$3.75.

TR 2-14 Pruner — Same as the TR 2 except has the popular closed pattern handle. Preferred by utilities and tree surgeons everywhere. Length, 24 inches. With snap—\$4.15; without snap—\$3.75.



TR 5 Pruner—Has the proper curve for fast, easy pull cut, speed teeth suitable for large or small limbs. Large closed grip handle of seasoned beech, has plenty of hand room for gloves. Length, 30 inches—\$4.25.

TR 1 All Purpose Saw— Properly pitched Roberts Speedsaw teeth for easy and fast pull cut stroke. This blade is used with pole pruner. Quick detachable pistol grip handle. Length, 16 inches. With snap— \$3.15; without snap—\$2.75.



TR 6 Pruner—Has the smallest Speed-saw Teeth in the Pruning Saw line. Cuts exceptionally fast on an easy pull. Point has a 3 inch section of 8 point peg teeth for starting cut. Well shaped, pistol grip. **Suggested as best for general use.** Length 12 inches, \$2.25.



No. 17 Forester Pruner—Made of genuine Silver Steel, 1½ inches wide at point, 3½ inches wide at butt. Blade is very stiff and will not bind. Extra large peg teeth. New style kiln dried beech handle highly lacquered. Length, 26 inches—\$2.55.



Atkins No. 16 Pole Tree Pruner—Made of genuine Silver Steel fitted with peg teeth and fastened to casting with 5/16 inch bolt and wing nut. The blade is adjustable to cut at any angle. Length, 16 inches—\$2.60 including socket. Blade only, \$1.75.

TR 8 All Purpose Pruner

—Skew back, hand saw type. Makes an excellent rip saw.

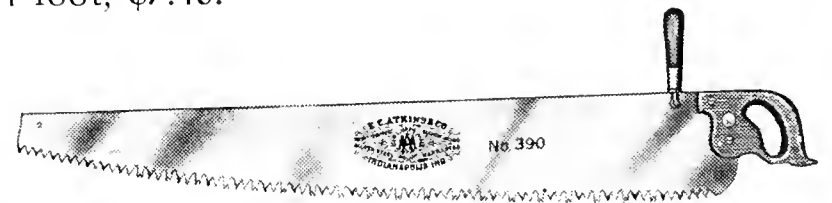
New style, seasoned beech handle, clear lacquered. Users can wear gloves and have firm hold. Made in 26 inch length only. With snap, \$5.15; without snap, \$4.75.



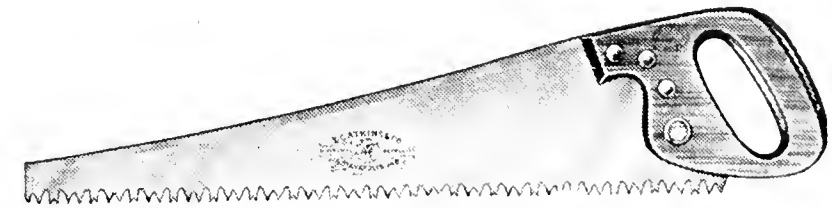
Atkins No. 41 Pruning Saw—Atkins newest pruning saw. Silver steel. Skew back. Ground 18 x 21 gauge thin back. A six-point hand saw tooth with wide set. Bevel filed. 26 inch length only—\$4.15.

TR 153 One Man Speedsaw

Will save sawing time. Straight back, slight breast. Large beech handle, orange trimmed on edge, carved grip, sanded sides. Permits gloves to be worn. 2½ foot, \$4.95; 3½ foot, \$6.60; 4 foot, \$7.45.

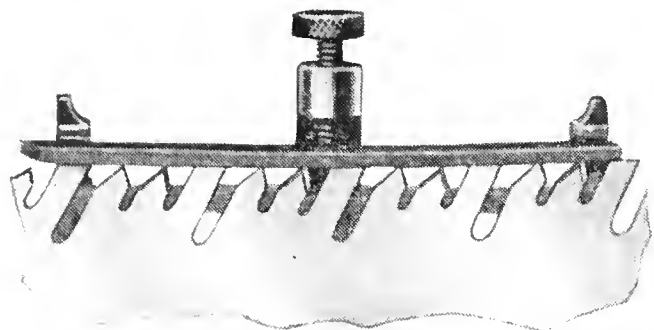


Atkins No. 390 One Man Saw—Has wood saw tuttle teeth, properly filed and set, and is fitted with an extra large and roomy grip beech handle. Length, 3 feet—\$3.25; 3½ feet—\$3.80; 4 feet—\$4.25.



Atkins No. 40 Tuttle Tooth Pruner—Made of high grade special steel, tuttle tooth pattern. Has extra sharp teeth that hold their edge longer due to their extra fine temper. Extra large and roomy, kiln dried beech handle. Length, 20 inches—\$2.85; 24 inches—\$3.40.

SAW ACCESSORIES

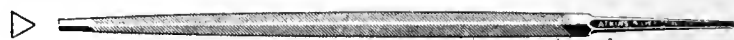
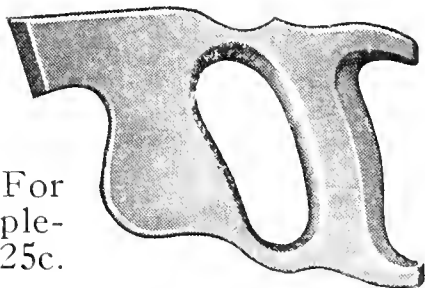


Jointer for Roberts Speed Saws. Designed especially for Speed Saws but can be used on all concave, convex, and straight breasted saws by merely adjusting screw. For hand and pruning saws, each, 90c; for cross cut saws, each, \$1.65.

Quick Release Snap—For Roberts Speed Saws and other tools commonly carried on the belt. Each, 35c.



Saw Handles—For Roberts Speed Saws. No. 2-14 and No. 5—65c; No. 1 and 8—60c; No. 2—55c; No. 153—50c. For Atkins Saws—35c; Supplementary for cross cut—25c.

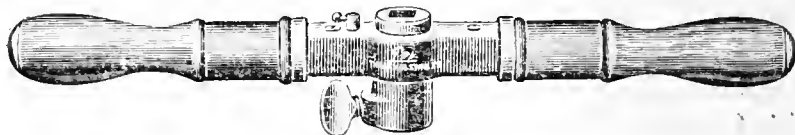


Atkins Slim Taper Files—Made from genuine Silver Steel and are recommended for use in refitting Atkins Pruning Saws. Length, 6 inches—30c each; dozen—\$2.45. For Roberts Speed Saws, 35c; per dozen—\$3.10.



Atkins Safe Back Cant Saw File—Silver Steel File made of the same high grade material as the Silver Steel Saws. Length, 6 inches—35c; dozen—\$3.95. For Roberts Speed Saws, 50c; per dozen—\$5.40.

Swan Ratchet Auger Handle



A valuable tool for drilling in close crotches and under limbs, as both handles are removable. Handles of hardwood reinforced with a steel bolt. Steel center. Fifteen inches long. Each \$4.00.

GREENLEE TOOLS

Among users of hand tools the name Greenlee represents the finest in quality and workmanship. Every tool bearing the name Greenlee is guaranteed to be free from imperfections of material or workmanship, and superior in quality and service.

Tree Surgeon's Socket Chisels and Socket Gouges

To meet the severe requirements of chisels for tree surgery the blade and socket of these chisels are made from one piece of high grade alloy steel, with the upper section of the blade and the socket being extra heavy. Handle of hickory with turned steel ferrule.

Chisels



3/4 inch—\$2.25

1 1/2 inches—\$3.00

Gouges



3/4 inch—\$2.50

1 1/2 inches—\$3.25

Extra handles, 25c each

Bit Extensions



The positive lock prevents loosening of the holding sleeve, insuring absolute grip on the shank at all times. These extensions are so designed that they will drive a bit up to 1 inch in diameter and yet follow a 5/8 inch bit.

18 inch length\$2.25 24 inch length\$2.40

Tree Rod Bits



Single-Spur Car Bit

Especially designed for tree surgery, these bits are made from very tough alloy material and are heat treated full length for greater strength. The single-spiral twist provides best chip clearance. These bits are perfectly finished and highly polished and should not be confused with poorer quality bits that sell at a lower price.

12 inch twist 18 inch length	24 inch twist 30 inch length
7/16 inch\$1.45	9/16 inch\$2.80
9/16 inch1.60	11/16 inch3.36
11/16 inch1.75	13/16 inch3.90
13/16 inch2.25	

Extension Bits. Above 12 inch twist bits with stiff steel square shanks. Total length 36 inches, add 65 cents to above prices. For extra lengths add 15c per foot.

Solid Center Auger Bits

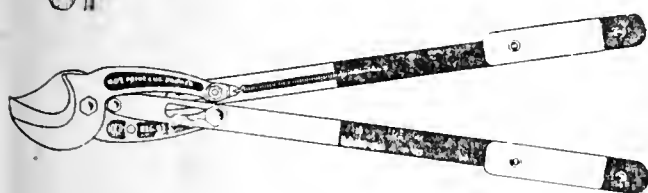


Double cutter head with two extension lips, solid center and single special twist. These bits are perfectly finished, highly polished, and of finest quality.

3/16 inch40c	5/16 inch35c
4/16 inch35c	7/16 inch40c

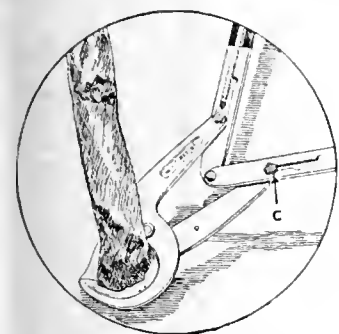
PROFESSIONAL PRUNERS

H. K. Porter Pole Pruners—Porter Pole Pruners were developed to meet the needs of commercial users of such tools for tree trimming on a large scale. These pruners are ruggedly designed to eliminate annoying replacements so common to ordinary tools. Because both blades are sharp, very close cuts are possible, permitting quicker healing. Light in weight, they may be used continuously with minimum fatigue. The round, basswood poles are $1\frac{5}{16}$ inches in diameter, polished and varnished. This is truly a quality tool. Pole Pruner, complete with one pulley, 10 ft., \$6.75; 12 ft., \$7.00. Head only, \$4.25; Pully, 25c; Pole, 12 ft., \$1.95; Rope, woven cotton, no center filler, 15 ft., 50c; 100 ft. hank, \$2.00.



H. K. Porter Forester Point Cut Pruner—A heavy duty pruner of

finest quality, designed to cut large branches in the throat and small branches at the extreme point. The patented Power-Slot multiple leverage principle permits increasing the leverage up to 100 percent by merely slipping the handles into the successive slots.



The two sharp blades cut close and clean and the spur on the hooked blade prevents springing or crossing. This is a tool for hard use and long life and will be appreciated because it is so compact for the power it delivers. 24 inch length, \$5.10; 20 inch length, \$5.00.

Seymour Smith Improved Telephone Pruner Head

—A new and improved design of pruner head with greater cutting power and strength. The greatly improved spring action is revolutionary in design and, combined with the chain pulley unit which eliminates rope wear and breaking, gives unusual easy and quick action. No. 12 cuts $1\frac{1}{2}$ inch branches, \$5.00 each. No. 11, cuts 1 inch branches, \$2.20 each.

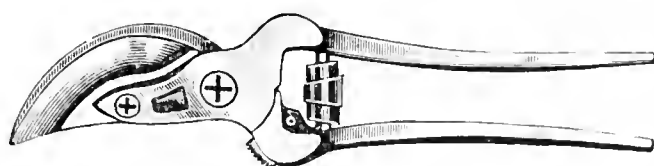


Seymour Smith Professional Pruner—A light



weight, perfectly balanced all-steel pruner that cuts easily and clean, clear to points of cutting blades. So designed that it makes close cuts without stubs, that will heal over quickly. Special alloy steel forgings carefully tempered and ground to keen, lasting cutting edges. Fitted with large, comfortable, hardwood handle grips. Length 24 inches overall, weight $2\frac{3}{4}$ pounds. Each—\$3.50.

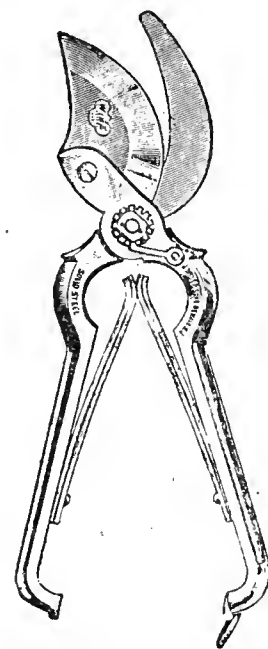
Porter Twin Cut Pruner Shear—The point cut principal embodied in an American shear of finest quality. The



two sharp blades cut close and clean with minimum pressure at the handles and, because of draw cut design, cut as effectively at point as in the throat, making trimming easier and quicker and permitting close cuts even in narrow crotches. The handle design with special lock prevents pinching of hand. The spur on the hooked blade prevents springing of wide blade under cutting pressure. Length, $8\frac{3}{4}$ inches. Price, \$3.75 each.

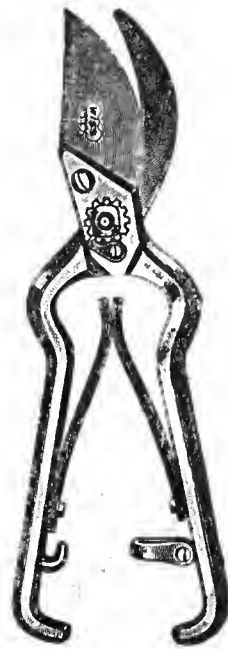
WISS HAND PRUNERS

Professional



Professional Pruner—Special design for easy cutting. Hardened cutlery blades, phosphor bronze springs or coil spring; full polished; 9 inch, \$4.25.

California

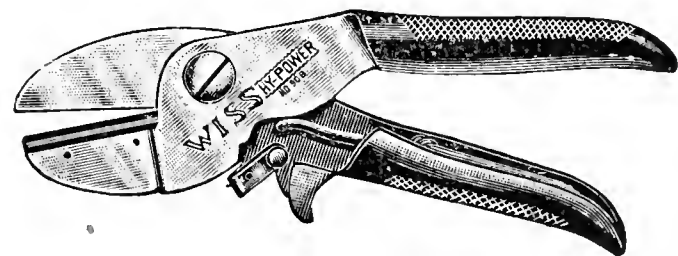


California Pruner—Unequaled in medium price pruners. Extra thin hammer forged cutlery steel blades with wide bevel for easier cutting. Brass springs. Full polish finish. 9 inch, \$3.00.

Home



Home model—A well made, solid steel pruner, which will give excellent service in the garden. $8\frac{1}{4}$ inch, \$1.25.



Hy-Power Hand Pruner

The easiest cutting pruner of its size. A new effortless cutting

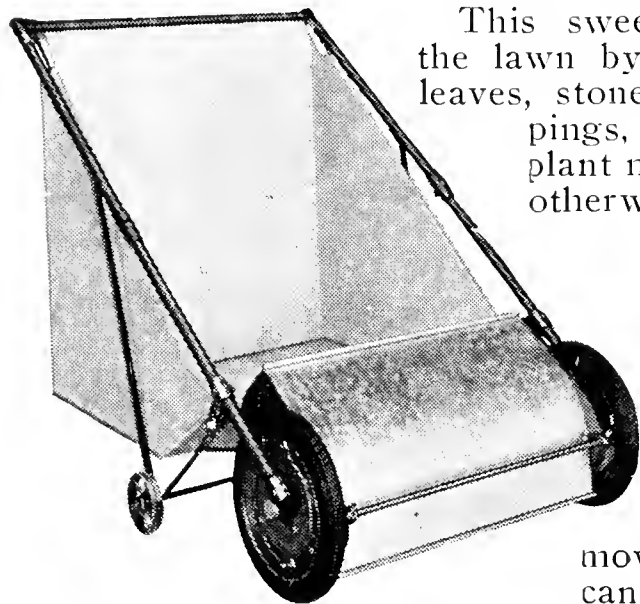
action that simplifies pruning. Of finest steel, nickel finished. Length 8 inches. \$2.00 each.

Hy-Power Jr.—Same design as above but smaller and of gun metal finish. 6 inch, \$1.35.

Bartlett Pole Pruners—Strongly made pole pruner. For heavy duty and professional use. 8 ft., \$7.00; 12 ft., \$7.50.

Clyde Pole Pruner—Light pole pruner for the small grounds. 8 ft., \$1.75; 10 ft., \$2.00; 12 ft., \$2.25.

THE SPRINGFIELD SWEEPER



This sweeper beautifies the lawn by removing all leaves, stones, twigs, clippings, and loose plant materials which otherwise would bury or become imbedded in the turf and cause damage. It operates with a soft, easy whirling, sweeping movement which cannot injure the

turf. The 15 inch diameter wheels make it as easy to operate as a lawn mower and the large capacity hopper is easily and quickly removed for emptying.

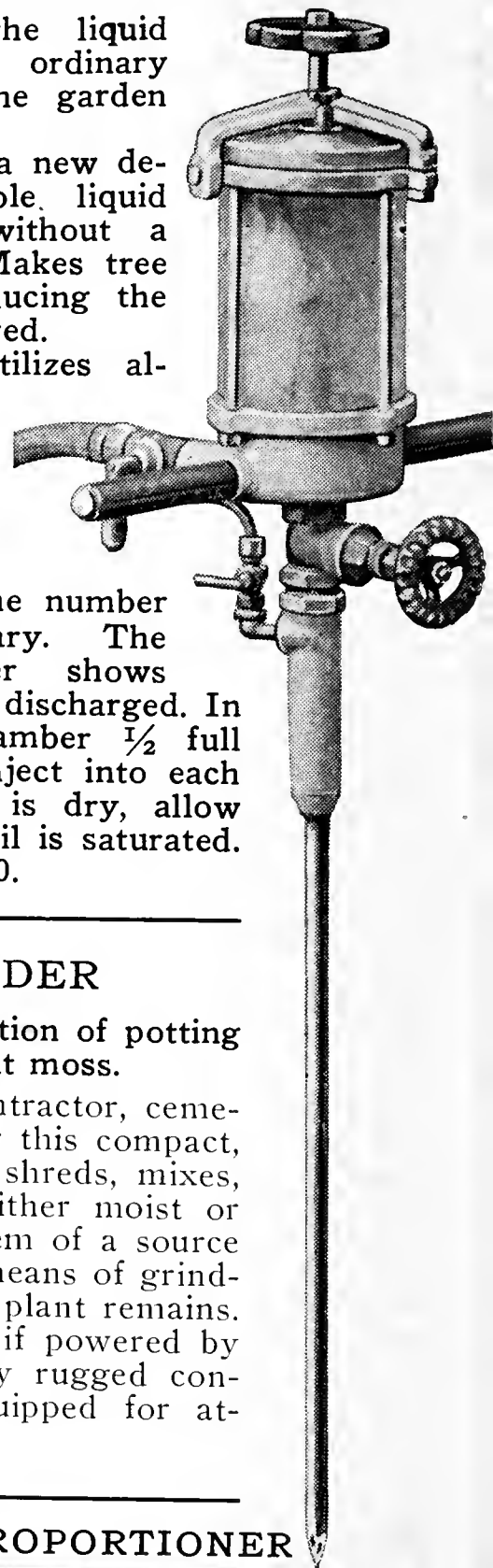
36" with pneumatic tires.....	\$ 55.00
28" with pneumatic tires.....	45.00
28" with steel wheels.....	38.00
20" with slip on rubber tires.....	21.50
36" Power, Briggs & Stratton Engine....	145.00

FERTIGATOR

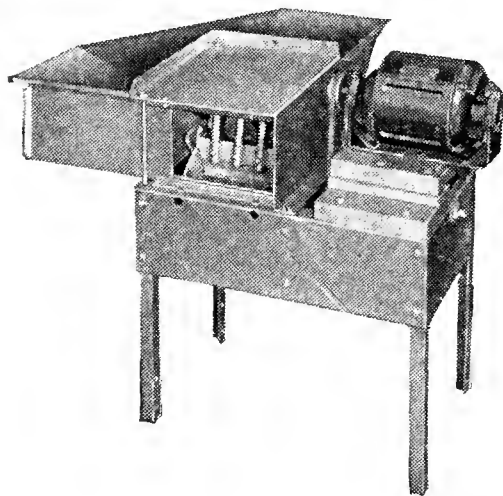
Feed trees by the liquid method, using only ordinary city pressure and the garden hose.

The Fertigator is a new device making possible liquid feeding of trees without a power spray unit. Makes tree feeding easy by reducing the time and labor involved.

The Fertigator utilizes almost any fertilizing material but works especially well with Permalawn Soluble Tree Food because less plant food is required, reducing the number of charges necessary. The transparent chamber shows when the fertilizer is discharged. In feeding, fill the chamber $\frac{1}{2}$ full of plant food and inject into each hole; if the season is dry, allow water to run until soil is saturated. Price complete, \$45.00.



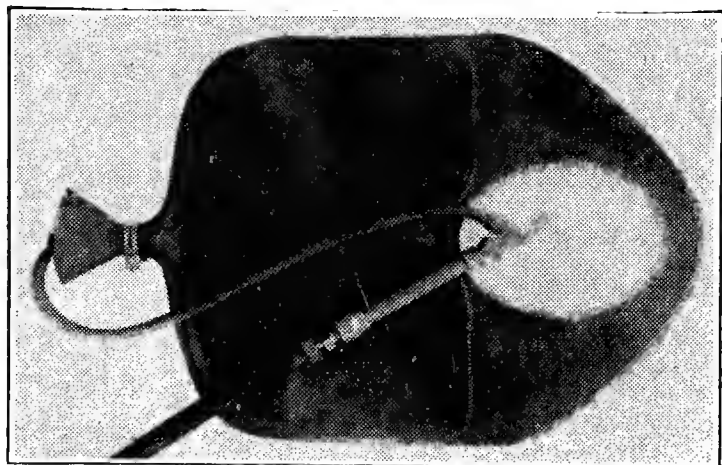
WICHITA COMPOST GRINDER



Just what is needed for the better preparation of potting soil, top dressing materials, compost, and peat moss.

Every professional gardener, landscape contractor, cemetery, and golf course will find many uses for this compact, large capacity grinder, which grinds, chops, shreds, mixes, screens and piles soil or plant materials, either moist or dry. This machine will help solve the problem of a source of organic matter by providing an effective means of grinding compost prepared from leaves and other plant remains. Will handle all except very heavy, wet soil if powered by $\frac{1}{2}$ HP motor. Light and compact but very rugged construction. Price, delivered, \$87.50 fully equipped for attaching motor. Motor extra.

PERFECTION PROPORTIONER



Perfection Proportioner—This proportioner is designed to be suspended from the shoulders of the operator, permitting complete freedom of movement. Adapted to the application of mercury compounds for brown patch control, of poisons for worm and grub control, of weed killers, and of **soluble plant food** for liquid lawn feeding. The bag is made of chemical resisting rubber and will last for years. To apply Permalawn Soluble Plant Food, dissolve 2 pounds per gallon of water and apply on 250 to 300 square feet. Time required for discharge—2 minutes at 30 pounds pressure. Wash grass immediately. Price, \$27.00.

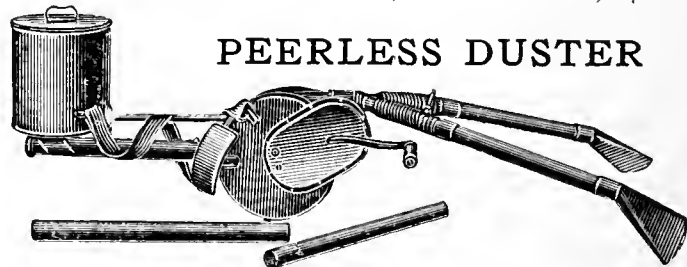
HOZON PROPORTIONER

RICH-VELVETY LAWNS



A proportioner for the application of soluble plant foods, brown patch fungicides, weed killers, and the like. Fits on the faucet or between two lengths of garden hose and delivers material, safely diluted, at ordinary pressures above 20 pounds. The Hozon provides a very economical method of applying solutions to the lawn. Use large volume nozzles.

Standard Model, 1 gal. Sol., 3 minutes, \$2.50
Estate Model, 2 gal. Sol., 3 minutes, \$5.00



PEERLESS DUSTER

A large capacity crank duster of sturdy construction for nursery and orchard dusting. Hopper at back and gun and nozzles in front give balanced load and flexible tubes permit dusting at any angle. Price, \$25.00.

SIMPLIFIED INSECT AND DISEASE CONTROL

In the garden the difference between success and failure frequently depends upon how effectively the many insects and diseases are controlled. There are a number of new and more effective spray materials available which equip the gardener better in this battle than he has ever been before. But equally as important as efficient spray materials is an effective and properly executed spray program.

Spraying should be started early to catch the first insects before they have an opportunity to become established in great numbers. One thorough spraying which catches the first brood in an especially susceptible stage may be many times more effective than several applications later. As an example, the leaf hopper can be controlled most readily in the nymph stage.

HOW TO SELECT INSECTICIDES AND FUNGICIDES

In selecting an insecticide it is necessary to consider the cost of the finished spray of effective strength. Some material may cost very little per pound or gallon compared with another, but because it is weak or dilute it will make so much less effective spray that the cost is much greater than that of the more expensive but more concentrated spray material.

Antrol—Poison syrup, small jars, 10c; 4 oz. bottles, 35c; 4 bottle set, 75c.

Antrol—Powder, shaker can, 25c.

Arsenate of Lead—Effective and economical control for most chewing insects. Poisonous but longer lasting. 1 lb. carton, 35c; 4 lb. bag, 90c; case of 24 lbs., \$4.50; 96 lbs., \$15.00. (* $\frac{3}{4}$ c).

Arsenate of Lead—see Led-Ko.

Black Leaf 40—see **Nicotine Sulfate**

Bordeaux Mixture—Effective fungicide for the control of black spot, mildew, leaf spot, etc. One pound makes 5 gallons of spray. 1 lb. canister, 35c; 4 lbs., 90c; case of 24 lbs., \$4.50; 96 lb. case, \$15.00 Del.

Borerkil—Nicotine paste for killing borers, when injected into their burrows. 1½ oz., tubes, 55c; 4 lb. can, \$7.50.

Carbon Disulfide—Liquid for the control of ants. 1 lb. can, 50c.

BROWN PATCH CONTROL

CaloClor—Suspension Type—Powder for the prevention and control of both large and small brown patch on lawns. Use at the rate of 3 oz. per 50 gallons of water on 1000 sq. ft. of lawn area. 1 lb., \$4.80; 5 lbs., \$23.50.

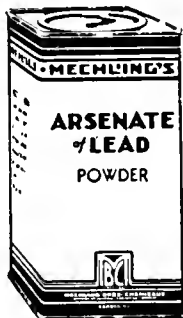
Calogreen—Suspension Type—A finely powdered calomel prepared especially for the control of small Brown Patch. Gives prolonged protection with no danger of burning the grass. Use 3 ounces per 50 gallons of water for 1000 square feet. 1 lb., \$5.30; 5 lbs., \$26.00.

Calomel—See Calogreen.

Corrosive Sublimate—U.S.P. bichloride of mercury powder. An effective preventative and control for large brown patch. Valuable for treating bulbs and disinfecting soils to prevent damping off. Use 3 oz. per 1000 sq. ft. 1 lb., \$3.90; 5 lbs., \$18.50.

Cuprocide—Copper dust for treating seeds to prevent damping off. 4 oz., 35c; 1 lb., \$1.00; 5 lbs., \$4.25.

Cuprocide "54"—Prevents Post Emergence Damping Off. Also a good general fungicide. Use 3 lbs. per 100 gallons. 3 lb. bag, \$1.25.



For Roses

Roses are commonly attacked by several fungous diseases which produce mildew, leaf spot, etc. A **non-staining** and effective control may be secured economically with Copper Solution. Should be used in combination with Pyrote if insects are to be controlled.

Copper Solution—(Active agent in numerous rose fungicides). A complete solution of copper which permits effective control of fungous diseases on roses, phlox, delphiniums, chrysanthemums, sweet peas, and many others, at a reduced cost. **Stimulates** plant growth, producing better flowers and vegetables. Non-staining. 1 gallon makes 100 gallons. 1 qt., \$1.50; 1 gal., \$4.60.

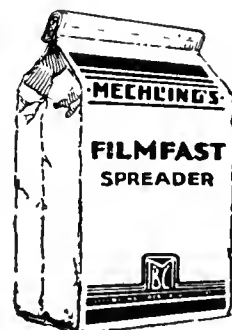
Cyanogas A—Dust fumigant for the control of ants, moles, and other burrowing insects and animals. 4 oz. tin, 30c; ½ lb. tin, 45c; 5 lbs., \$3.00; 25 lbs., \$10.00.

Cyanogas G—Greenhouse fumigant for the control of aphids, white fly, thrip, and other greenhouse pests. Also used to control burrowing rodents. 5 lbs., \$3.00; 25 lbs., \$10.00.

Dalmation Powder—An excellent control for ants. Sprinkle in runs or inject into holes with ordinary oil can. 2 oz., 25c; ½ lb., 75c. Dormant Oil (See Superior Scale Oil)

For Better Insect Control

Filmfast Spreader and Sticker—A good spreader and sticker should be used with all powder types of spray materials, such as lead arsenate, Bordeaux Mixture, Copper "34", and sulfur to secure better spreading and better adherence of the material to fruit and foliage. The Arnold Arboretum has pronounced it the best spreader and sticker available and it has been found essential to the control of CEDAR-APPLE RUST through the use of sulfur. Use 2 pounds per 100 gallons. 2 lb. bag, 75c; 25 lbs., \$6.25; 100 lbs., \$20.00. (Cost per gallon of prepared spray 1c).



Fungine—Fungicide for the control of mildew, rust, leaf spot, etc., in the garden and greenhouse. 1 qt., \$1.10; 1 gal., \$3.00. (* $\frac{8}{12}$ c).

Ko-Sul—Colloidal sulfur. Small bottle (for 15 gallons of spray), 35c; 1 lb. bottle, \$1.50. (* $\frac{3}{4}$ c).

Kolodust—A dust for the control of red spiders, mites, and fungous diseases where sulfur is indicated. 10 lbs., \$1.00; 100 lbs., \$7.00.

Larvacide—Soil fumigant which destroys worms, larve of various insects, disease fungi, and weed seeds in greenhouse and garden soils. One pound treats 100 to 200 square feet of soil. In one pound injector bottles, \$1.60 per pound.

LED-KO—A colloidal form of lead arsenate. If an attack of chewing insects occurs and it is desired to use a stomach poison for their control, **Led-Ko** will be found more effective and quicker acting than the ordinary type of lead arsenate. Being in liquid form and very concentrated it is more convenient to handle, mixes more easily in the spray tank, and does not discolor foliage as does ordinary lead arsenate. Small bottle (to make 15 gal.) 35c; 1 lb., \$1.25 (to make 200 gal.) (Cost per gallon of prepared spray— $\frac{1}{2}$ c to $\frac{3}{4}$ c).



Lime Sulfur—(Dry)—Dormant spray for the control of scale insects; 3 lbs. to 12 gallons of water. 1 lb., 35c; 5 lbs., \$1.50; 25 lbs., \$4.50; 100 lbs., \$12.50. (*3c).

Lime Sulfur Solution—Dormant spray for scale insects. 1 gallon to 12 gallons of water. Discolors paint and is less popular than dormant oil. 1 gal. \$1.25; 5 gals., \$4.25.

Napthalene Flakes—5 lbs., \$1.60; 25 lbs., \$4.00.

New Evergreen—Pyrethrum spray effective against many insects. 1 oz., 35c; 6 oz., \$1.00; 1 pt., \$2.00; 1 gal., \$11.00. (* $\frac{1}{2}$ c to 3c).

Nicotine—(Liquid)—40% nicotine. For fumigating or spraying. 4 lb. can, \$6.00; 8 lb. can, \$11.00. (* $\frac{1}{2}$ c).

Nicoteen Powder—Greenhouse fumigant which lights quickly and burns completely. 5 lb. tin, \$4.00; 10 lb. tin, \$7.00.

Nicotine Sulfate—Effective control for certain soft bodied sucking insects. 1 oz., 35c; 5 oz., \$1.00; 1 lb., \$2.25; 5 lb. can, \$5.85; 10 lb. can, \$10.60. (* $\frac{1}{2}$ c).

Nico-Fume Liquid—For fumigating or spraying. 1 lb. can, \$2.50; 4 lb. can, \$6.50; 8 lb. can, \$12.00. (* $\frac{1}{2}$ c).

Paris Green—1 lb., 55c; 5 lbs., \$2.50.

Paradichlorobenzene—Fumigant for the control of Peach Tree Borer and common house moths. Suggested to Tree Surgeons for use in cavities as a precaution against the entrance of borers. 1 lb. can, 50c; 5 lb. can, \$2.00.

Pomogreen—(With Nicotine)—Poisonous. 1 lb., 75c; 5 lbs., \$3.00. (*16c).

Pyrethrum Powder—Non-poisonous insecticide dust for the control of many sucking and chewing insects. 1 lb., 85c; 5 lbs., \$3.75; 10 lbs., \$6.75.



Pyrote—An excellent general purpose spray. Pyrote combines the killing power of both pyrethrum and rotenone and is thus effective against a greater number of both sucking and chewing insects. If a thorough spray program is started early, when the plants are young, the effective control of the most common insects may be expected. Pyrote is non-poisonous to humans and pets, and will not injure the tenderest foliage, does not discolor, contains its own spreader, mixes easily, and is economical. It is equally effective in the greenhouse, in the flower and vegetable gardens, on shrubs, and for fruit and shade trees. It is an excellent substitute for nicotine sulfate and has an important place in park and grounds maintenance. 1 oz., 35c; 6 oz., \$1.00; pt., \$2.25; gal., \$15.00.

Red Arrow—Non-poisonous pyrethrum spray effective against many insects. One pint makes 100 gallons of spray for aphid, thrip, etc. 1 oz., 35c; 4 oz., \$1.00; 1 pt., \$2.85; 1 qt., \$5.40; 1 gal., \$15.00. (* $\frac{1}{2}$ c to 3c).

Rotenone "75"—Non-poisonous dust effective against many sucking and chewing insects. Specific for the pea aphid and recommended for thrip on gladiolus. 1 lb., 30c; 5 lbs., \$1.00.

Rotenone "400"—Concentrated, non-poisonous spray. Contains 4% rotenone. Effective against red spider and other mites, thrip, and many other sucking and chewing insects, especially those attacking vegetables and flowers. Use 6 oz. per 35 gallons water, 6 oz., 50c.

Selocide—Specific control for red spider, 1 gal., \$4.00; 5 gal., \$16.75.

Semesan—Control for brown patch on lawns. Use $\frac{1}{2}$ lb. per 1000 sq. ft. 1 lb., \$2.25; 5 lbs., \$9.90.

Slug Shot Liquid—A popular and effective contact insecticide for use throughout the garden. 1 oz. 35c; 1 pt., \$2.25; 1 gal., \$12.00.

Slug Shot Powder—Long a popular dust for the control of insects on vegetables, especially cabbage, cauliflower, cucumber, etc. 1 lb. carton, 25c; 5 lb. carton, \$1.00.

SULROTE—Combination Fungicide and Insecticide. Sulrote is a combination sulfur and rotenone dust for use in the garden where dusting is preferred to spraying. It is an excellent control for leaf spot, mildew, and chewing insects on roses and lilacs, is especially recommended for the control of **Thrip** on iris, gladioli, and peony, and for **Alternaria** of carnation, and if used at proper intervals will control **Red Spider** and **Cyclamen Mite**. 12 oz. push-pull canister, 50c; 1 lb., canister, 40c; 5 lbs., \$1.25; 25 lbs., \$4.25.

Magnetic Sulfur—Rotenone Spray—A superior fungicide and insecticide consisting of finely divided sulfur and rotenone. Effective as either a dust or a spray. Recommended especially for the control of red spider, cyclamen mite, thrips, etc., and for mildew and leaf spot on roses. Contains 55 percent sulfur and 1.50 percent rotenone. 4 lb. bag, \$1.25; case of 24 lbs., \$6.45.



Red Spider and Cyclamen Mites and other Mites

"Rotenone appears at present to be the most promising spray material to try against the pallid (Cyclamen) mite and is effective also against aphids, thrips, and red spider mite. Since finely ground sulfur is also effective against exposed mites, better results may be secured by either combining a wettable sulfur with the rotenone spray or following each spray treatment with a light dusting of dusting sulfur."—Delphinium Society Year Book, 1939.

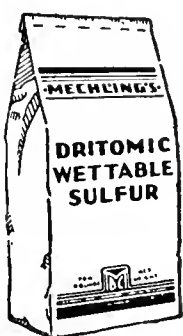
Fungous Diseases

Fungous diseases attack many of the common garden plants and produce more or less severe damage. All such plants will be more vigorous if sprayed occasionally with a good fungicide. Either the copper or sulfur compounds are effective controls.

SprayCop—A very welcome substitute for Bordeaux Mixture. SprayCop contains nearly 3 times as much copper as Bordeaux Mixture and may be substituted for it at one third the rate with superior results. SprayCop mixes in the spray tank with greater ease, contains no free lime and may be combined with any other spray materials, does not discolor foliage as much as Bordeaux Mixture, has a wider margin of safety. One pound makes 20 gallons spray. 6 lb. bag, \$1.80; case of 48 lbs., \$12.24. (Cost per gallon prepared spray— $\frac{3}{4}$ c).



Sulfur—(Wettable)—Effective general fungicide for most fungous diseases encountered in the garden. Wets immediately upon addition to water and is easier and more pleasant to use than a dust. Very effective control for **Red Spider**. Use 4-5 lbs. to 100 gallons water, or as a dust. 2 lbs., 35c; 5 lbs., 55c; 24 lbs., \$2.50.



Sulfur—Dusting. Electric Super Adhesive. 5 lb. bag, 40c; case of 12, \$4.00; 100 lb. bags, \$3.80.

Magnetic Dusting Sulfur—A finely divided sulfur with great adhesive properties prepared especially for dusting plants for disease and red spider and mite control. 3 lb. canister, 50c.

CEDAR-APPLE RUST SPRAY SCHEDULE

Hawthorns and Crab-apples—(spray only in spring)

Apply first spray as leaves are emerging from buds. Apply four or more sprays at 8 to 10 day intervals as long as galls on Red Cedar produce gelatinous material following a rain. Spraying just preceding or immediately following a rain is most effective.

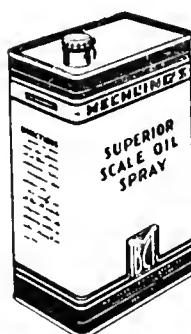
Red-Cedars—(Spray only in fall)

Apply first spray about August first or when spore stalks develop on under side of leaves of hawthorns and crab-apples. Follow with 2 or 3 sprays at intervals of 2 or 3 weeks as long as spores are being produced by hawthorns and crab-apples.

Linco Colloidal Sulfur—A very finely divided sulfur. Linco-Colloidal Sulfur is the most satisfactory control for **Cedar-Apple Rust**. When used in conjunction with **Filmfast** it has given a high degree of control of this disease on ornamental hawthorns and crab-apples and on red cedars. Linco-Colloidal Sulfur is also an excellent **General Fungicide** for use throughout the garden and furnishes a most effective and economical control for **Red Spider** and **Red Mite**. Use 6 pounds per 100 gallons. 1 pint, \$1.00; qt., \$1.50; 12 lb. kit, \$3.60; 25 lb. kit, \$5.75; 60 lb. kit, \$15.00. (Cost per gallon of prepared spray—1c).

Colloidal Sulfur-Rotenone. Ko-Suro—1 lb. makes 200 gallons. Small bottle (for 15 gals. spray), 35c; 1 lb., \$2.00; (* $1\frac{1}{2}$ c).

Snarol—An insecticide bait to combat snails, cut worms, sow bugs and grasshoppers. Price, $1\frac{1}{2}$ lb., 35c; 4 lbs., 85c; 15 lbs., \$3.00; 50 lbs., \$8.00.



SUPERIOR SCALE OIL—A better dormant oil. Superior Scale oil is a carefully compounded, highly refined oil for the control of the scale insects which commonly infest orchard, shade, and evergreen trees, and ornamental shrubs. To make it a more complete control for insects during the dormant period it contains **cresylic acid** in the amount recommended by experiment stations to destroy the APHIS EGGS usually present on these during the winter. One gallon makes 15-20 gallons. 1 qt., 65c; 1 gal., \$1.50; 5 gals., \$5.50; 15 gals., \$12.00; 50 gals., \$40.00.

Tobacco Dust—5 lb. bag, 50c; 50 lb. bag, \$4.00. Nicotine content 1%.

Tree Tanglefoot—Checks attacks of insects which crawl up the trunks to feed upon the leaves. Effective against White Marked Tussock Moth and Spring Canker Worms if trees are banded in late winter. 1 lb., 70c; 5 lbs., \$3.25; 10 lbs., \$6.25; 25 lbs., \$12.75.



Trio-gen—Gives protection against numerous diseases and insects on roses. Set consists of solutions Nos. 1, 2, 3. "A" kit for 4 gals., \$1.50; "B" kit for 16 gals., \$4.00; "C" kit for 32 gals., \$6.00; "D" Estate kit for 128 gals., \$20.00. (*16c).

Volk—Greenhouse: Light oil spray effective against numerous chewing and sucking insects. 1 qt., 80c; 1 gal., \$2.50.

Volk—Nursery: A contact spray for use in the nursery and garden. 1 qt., 80c; 1 gal., \$2.50.

Wilson's O.K. Plant Spray—Used for greenhouses and garden plants. 1 gal. makes 15 gals. of spray. 1 qt., \$1.00; 1 gal., \$3.00; 5 gals., \$12.00. (*16c). (Add delivery).

DILUTION TABLE FOR HOME GARDENS

Powder Spray Materials

- 1 lb. per 100 gallons water equals about
- 1 oz. per 6 gallons water equals about
- 1 level tablespoon per gallon

Fluid Spray Materials

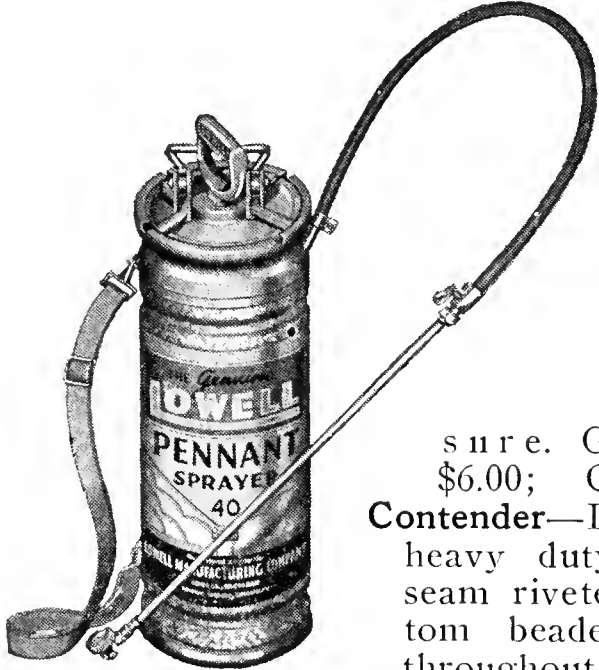
- 1 gallon per 100 gallons water equals about
- 4 fluid ounces per 3 gal. water equals about
- 3 tablespoons per gallon water

Lowell quality sprayers embody all the desirable new features of hand sprayer equipment and are strongly and carefully constructed of the best materials.



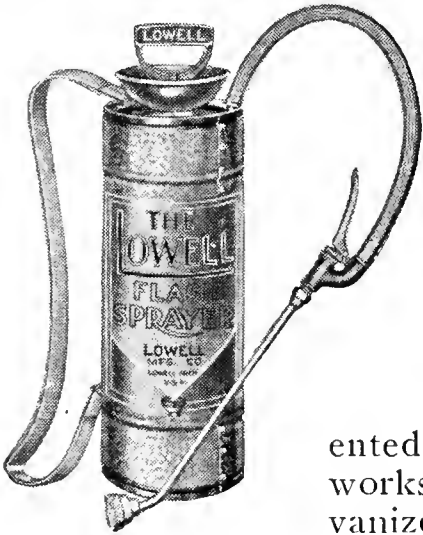
Spraymore—Knapsack type continuous sprayer in which pressure is easily maintained by operator while spraying. Capacity, 4 gallon, full open top, automatic shut-off,

and adjustable angle fog nozzle. Galvanized, \$15.00; Copper, \$21.00.



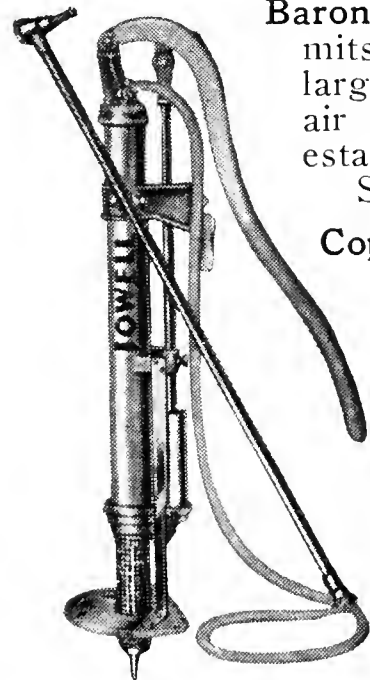
Pennant—Full open top, heavy duty sprayer. Side seam riveted, top and bottom beaded. Soldered throughout and tested to 100 lbs. pressure. Galvanized, \$6.00; Copper, \$9.75.

Contender—Funnel Top, heavy duty sprayer. Side seam riveted, top and bottom beaded. Soldered throughout. Capacity, 3¼ gal. Galvanized, \$4.00; Copper, \$6.00.



Flash—Smallest pressure sprayer, capacity 2¼ gal. Funnel top; seams riveted and beaded. Ideal for the lady gardener, and for small gardens. Galvanized, \$3.25; Copper, \$5.75.

Jumbo—Hand spray, 3 qt. Continuous action, two way nozzle. Patented plunger which always works. Strongly built. Galvanized, \$1.50.



Baron Bucket Pump Sprayer—Permits higher pressure spraying and larger volume than compressed air sprayers. Very practical for estates. Equipped with agitator, See at left. Each, \$7.20.

Copper extension rods to fit all above sprayers—4 ft., \$1.00; 2 ft., 60c.

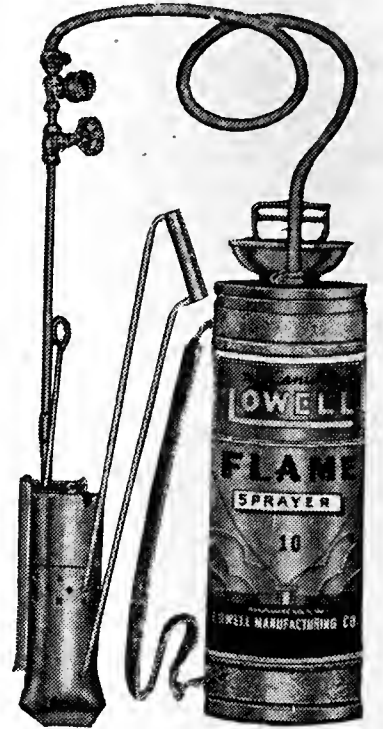
Pennant Automatic Shut-off, without nozzle, \$1.00.

Adjustable Nozzle, can be changed to any angle, \$1.30.

Hose—3/8" Red Corrugated, inner liner spray proofed; 250 lbs. working pressure. Per ft., 15c; 25 ft., \$3.00.

CONTROL WEEDS BY BURNING

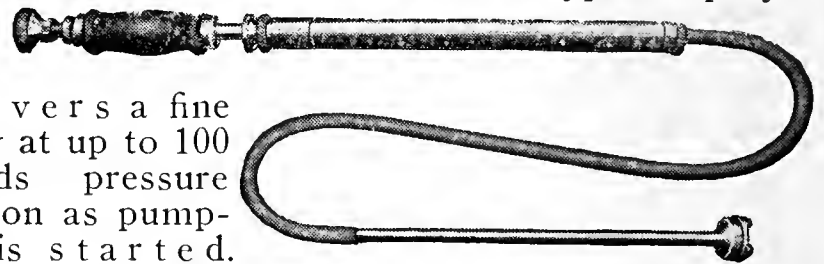
Lowell Flame Sprayer—A compact, light flame sprayer that develops 2000° F. with 12 inch, flat flame. Burns weeds, seeds, rubbish, etc. Useful for thawing out pipes, melting lead, asphalt, roofing, and the like. Tank, 4 gal. capacity, hose treated to resist oil. Price, complete, \$15.00.



Has been effective in controlling crab grass if used at the time the seed was maturing and before it shatters.

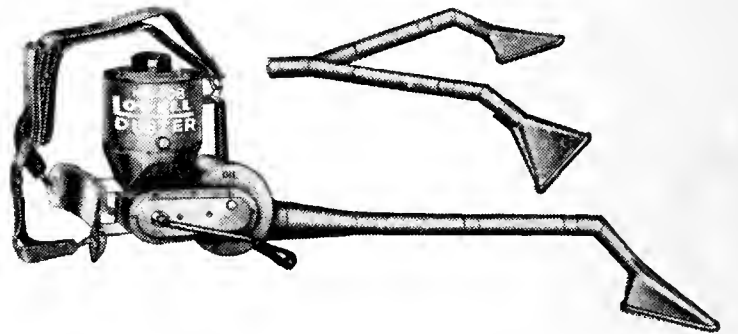
TROMBONE SPRAYER

Trombone Sprayer—The trombone type of sprayer



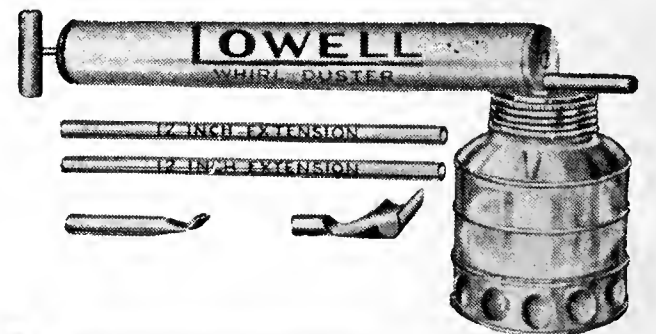
delivers a fine spray at up to 100 pounds pressure as soon as pumping is started.

Works in buckets, barrels, tanks, lakes, or streams. Handles any spray solution. Each, \$4.00.

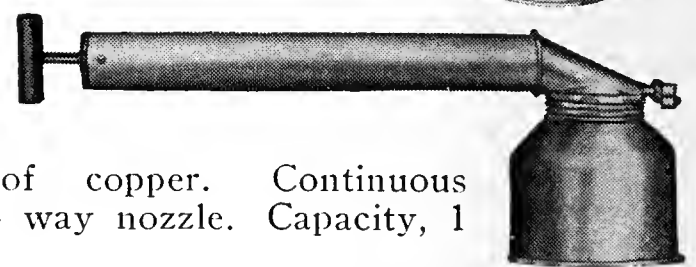


Nu-Power Crank Duster—Oscillating agitator keeps dust supply free of lumps and feeds to moving air stream through Nu-Power fan which gives smooth, even distribution. All steel construction; steel cut gears, fan ahead of hopper. Price each, \$13.50.

Whirl—Hand duster, 24 oz., 2-12" extension with upshot spout. Each, \$1.00.



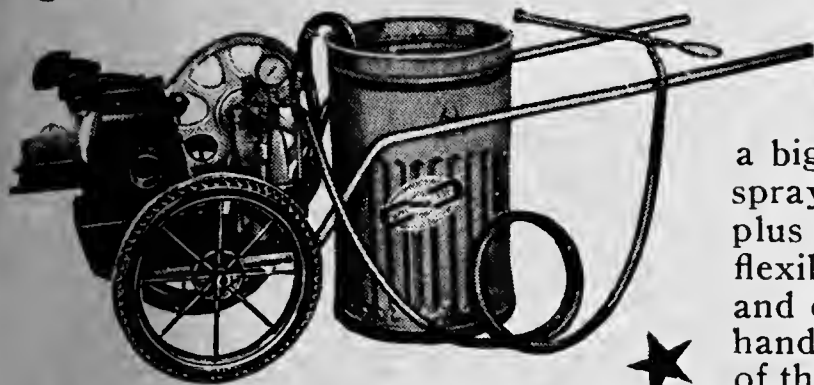
Copper King—Completely constructed of copper. Continuous spray, two way nozzle. Capacity, 1 qt., \$1.75.



High Pressure moulded hose for small power sprayers. 3/8 inch, 15c per ft.; 1/2 inch, 20c per ft.

"Effective Spray Equipment"

POWER WHEELBARROW SPRAYER—A genuine power sprayer with all the features of



a big sprayer plus the flexibility and easy handling of the wheel-

barrow type. This is not merely a wheelbarrow sprayer with a motor attached, but a small power sprayer with conventional pump unit with ample capacity for spraying evergreens and small shade trees and lawns for brown patch control. **Fully equipped for spraying.**

Specifications:

Tank: 18 gallons capacity, heavy galvanized sheet steel, top and bottom reinforced with heavy steel bands.

Pump: Brass with hardened stainless steel balls and valve seats. Piston of tempered steel, $\frac{7}{8}$ " diameter and $1\frac{1}{2}$ inch stroke. Large air chamber with release valve and pressure gauge. Capacity, 1 gallon per minute at 250 pounds pressure.

Agitator: Overflow from relief valve keeps spray solution thoroughly mixed.

Discharge Equipment: $12\frac{1}{2}$ feet of $\frac{3}{8}$ inch high pressure hose with spray gun adjustable from fog to stream by merely turning handle.

Power: $\frac{1}{2}$ HP Briggs and Stratton high speed, air cooled 4 cycle engine and V belt drive or $\frac{1}{3}$ HP AC motor, 110 volt current, V belt drive.

Price: $\frac{1}{2}$ HP Engine, 2" x 16" pneumatic tires, \$97.50.

$\frac{1}{3}$ HP AC motor, 2" x 16" pneumatic tires, \$90.50.

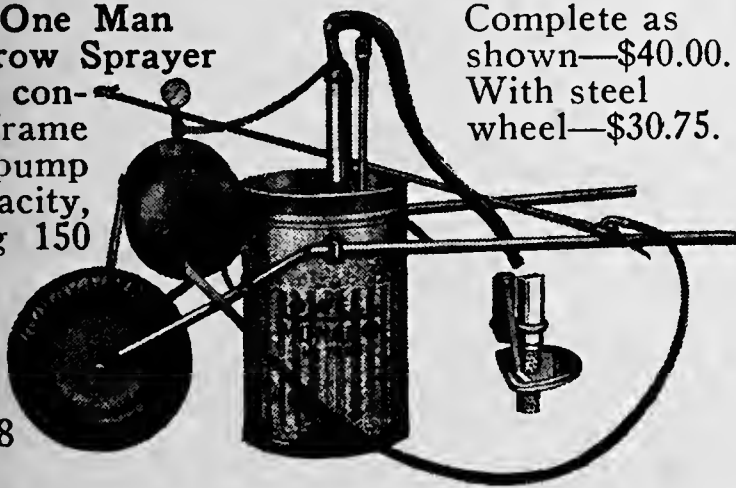
Pump unit only, \$39.50.

Without pneumatic tires, deduct \$12.50 from above prices.

Monarch One Man Wheelbarrow Sprayer

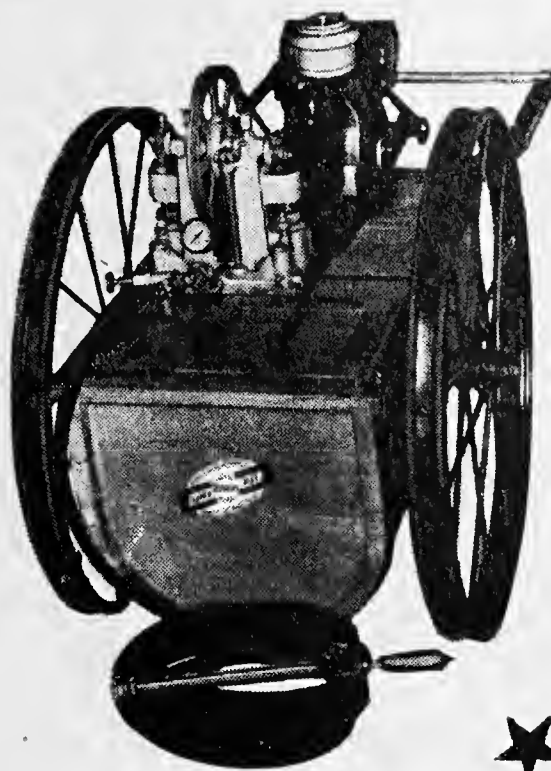
Strongly constructed frame and tank, pump large capacity, developing 150 to 200 pounds pressure.

Tank capacity 18 gallons.



Complete as shown—\$40.00.
With steel wheel—\$30.75.

PORTABLE POWER ESTATE SPRAYER—



Capacity 3 and $4\frac{1}{2}$ gallons per minute. A high pressure, light weight sprayer capable of handling all spray jobs (except high shade trees) on the larger estate, cemetery, nursery, and golf club. A bigger sprayer of excellent quality at a lower price. **Fully equipped for spraying.**

Specifications:

Pump: Double cylinder, high pressure; stainless steel ball valves and valve seats; self oiling.

Tank: 65 gallon Redwood, well reinforced.

Agitator: Gear driven, Impellor type.

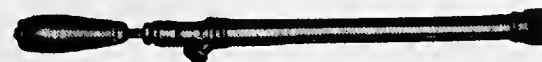
Discharge Equipment: 25 ft. $\frac{1}{2}$ inch **high pressure hose**; **Spray gun** with shut off, and adjustable for fine, medium, coarse, or long distance spray. Brass Y for connecting two spray lines.

Price: 1 HP Engine, $4\frac{1}{2}$ gallons per minute, 350 pounds pressure, weight 445 pounds with 4" x 36" pneumatic tires, \$269.50.

Same, but 3 gallons per minute, \$241.50.

Without pneumatic tires, deduct \$46.50.

Pump unit only, 3 gal. per minute, \$68.75.



Spray Gun—A small size, light spray gun designed for use with all small power sprayers and wheelbarrow sprayers with pressure tanks. Delivers a wide variety of sprays from a long distance spray, coarse spray, to a fine fog with in-between variations by a slight turn of the handle. For $\frac{3}{8}$ or $\frac{1}{2}$ inch hose. Standard equipment on Power Wheelbarrow and Estate Sprayers listed. Each, \$4.50.



Bamboo Spray Pole—Lined with continuous brass tube fixed at both ends; with stop cock and drip shield. 8 ft., \$4.50; 10 ft., \$4.75.

Radiant Wheelbarrow Sprayer—Same as Monarch but with smaller pump and $12\frac{1}{2}$ gallon capacity. With pneumatic tire, pressure tank and gauge, \$31.50. Without pneumatic tire, \$22.25. Without tire, tank or gauge, \$12.75.

HIGH PRESSURE SPRAYING

Many failures to control insects and diseases on plants in the garden may be traced directly to lack of sufficient pressure in spraying. The value of high pressure spraying for orchards and shade trees is fully recognized and it is just as important in the garden. The small power sprayer fills the gap between the hand sprayer and the large power unit necessary for the larger trees.

Good Mowers Make Better Lawns

Power Lawn Mower

(See back cover for large models)

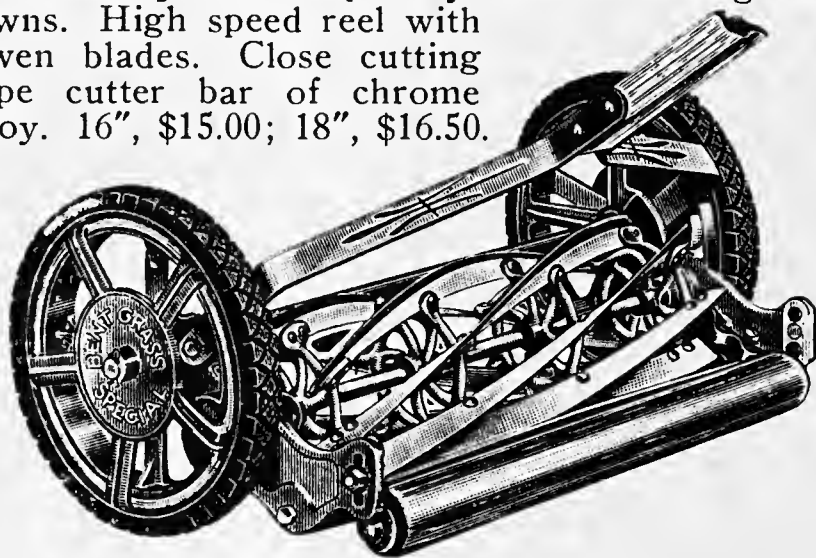
Moto-Mower Junior Model (20 inch)



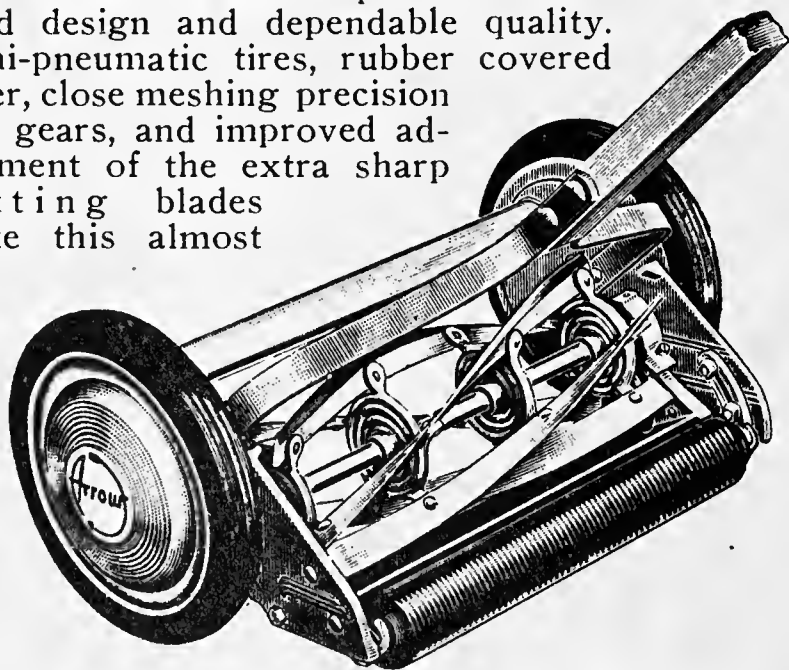
Designed to provide a power mower of large capacity for the small estate or large home lawn. Reduces the time and labor necessary for mowing. This is a quality power mower of sturdy malleable and steel construction. 20 inch cutting width, with self-adjusting roller bearings on reel. Powered with a $\frac{3}{4}$ HP Briggs and Stratton engine with 6:1 reduction gears running in oil. Fitted with semi-pneumatic rubber tires.

Price\$121.50 delivered.

Bent Grass Special—Expressly built for bent grass lawns. High speed reel with seven blades. Close cutting type cutter bar of chrome alloy. 16", \$15.00; 18", \$16.50.



Arrow Mower—A modest priced mower of streamlined design and dependable quality. Semi-pneumatic tires, rubber covered roller, close meshing precision cast gears, and improved adjustment of the extra sharp cutting blades make this almost

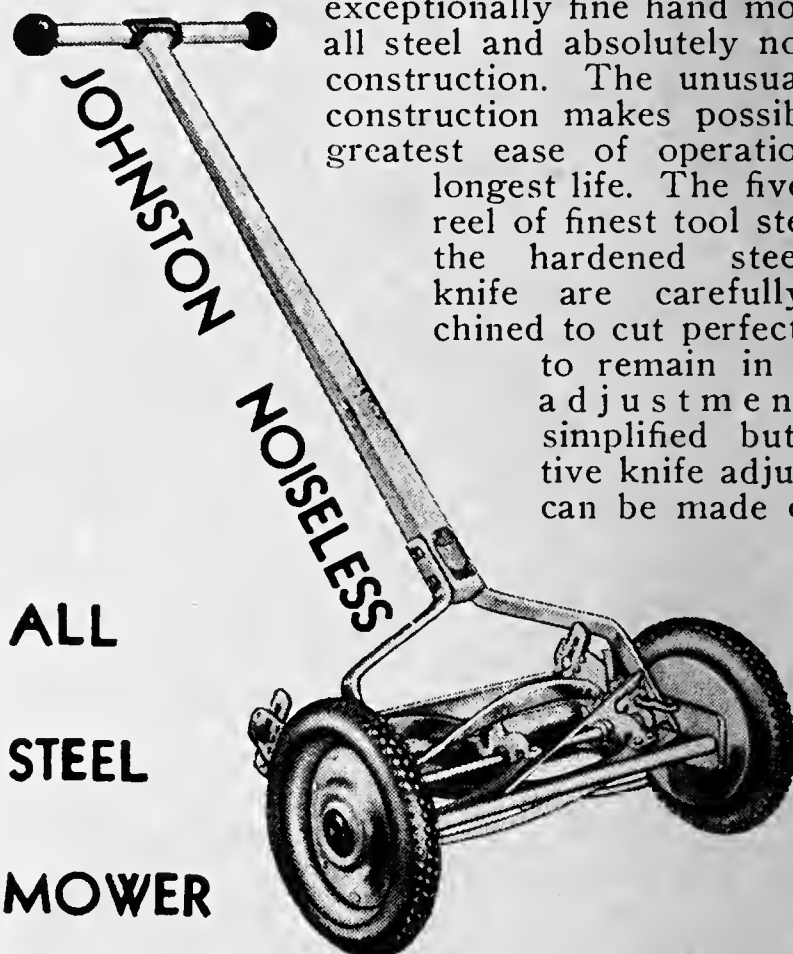


a completely noiseless mower. 16", \$13.50; 18", \$14.50.

Proper Clipping: The lawn should be cut high ($1\frac{1}{4}$ to $1\frac{1}{2}$ inches) throughout the year and should be cut frequently to prevent its getting too long. Good mowing equipment of ample capacity is essential.

AT LAST!

Johnston Noiseless all Steel Hand Mower—An exceptionally fine hand mower of all steel and absolutely noiseless construction. The unusual gear construction makes possible the greatest ease of operation and longest life. The five blade reel of finest tool steel and the hardened steel bed knife are carefully machined to cut perfectly and to remain in proper adjustment. The simplified but positive knife adjustment can be made quickly



ALL

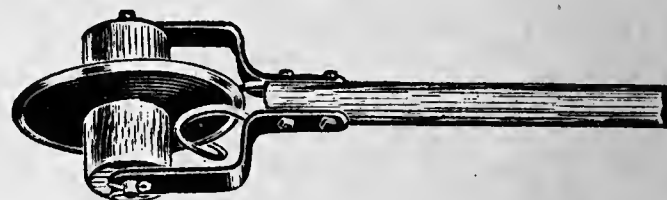
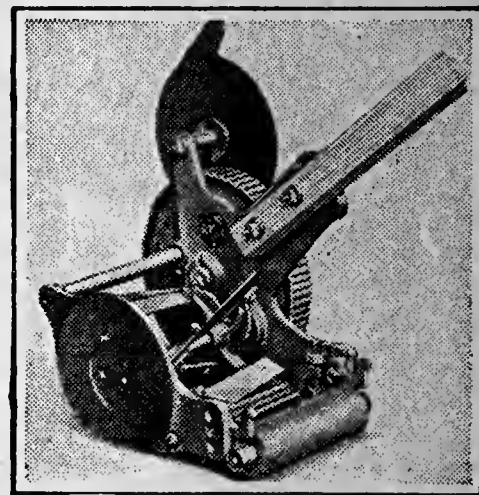
STEEL

MOWER

with no other tool than a nail. Rigid frame construction absolutely prevents the cutter units getting out of line. Fully guaranteed for 5 years by the manufacturer. Prices, 16 inch, \$17.50; 18 inch, \$18.00; 20 inch, \$19.50.

Pennsylvania Trimmer and Edger —

A time and labor saving machine which simplifies the trimming of grass borders and lawn edges. The steel disc is a powerful edging tool when the machine is turned over. Trimming width, 6 inches. Price, \$9.95, complete.

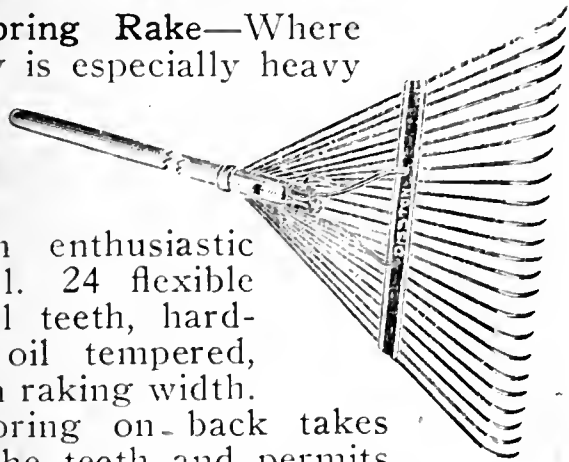


Pines Edger—The handiest type of lawn edger and turf cutter. Easy of operation. Each, \$1.50.

Simplex Grass Catcher—Made of heavy canvas sides and galvanized iron bottom. No. 1 for 14"-16" mowers, \$1.25; No. 2, for 18"-20" mowers, \$1.50.

LAWN RAKES

Disston Spring Rake—Where rake duty is especially heavy the Disston Spring Rake meets with enthusiastic approval. 24 flexible spring steel teeth, hardened and oil tempered, with 22 inch raking width. Flexible spring on back takes stress off the teeth and permits great strength with light construction. Recommended especially to the park superintendent and landscape contractor, as well as to estates and smaller homes. Each—\$1.75.



Bamboo Rakes—Medium size, strongly made. Each, \$1.00.

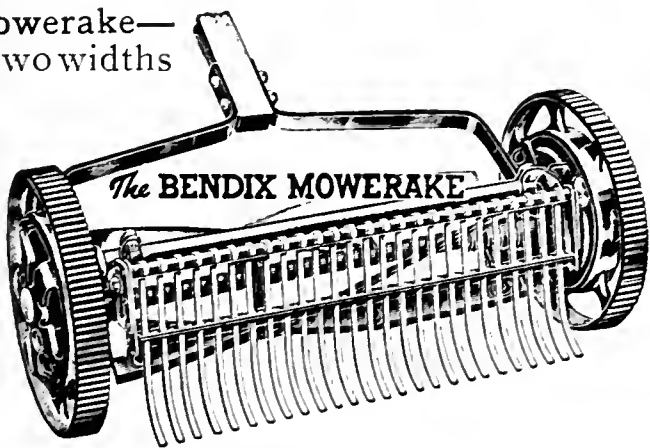
Dandelion Rakes—For removing dandelion heads and crab grass. Each, \$1.50.

Bendix Mowerake—

Is made in two widths only—No. 14 fits 15 in., 16 in., 17 in.

mowers — \$1.85. No. 18 fits 18 in., 19 in., 20 in. mowers — \$2.00, Assures

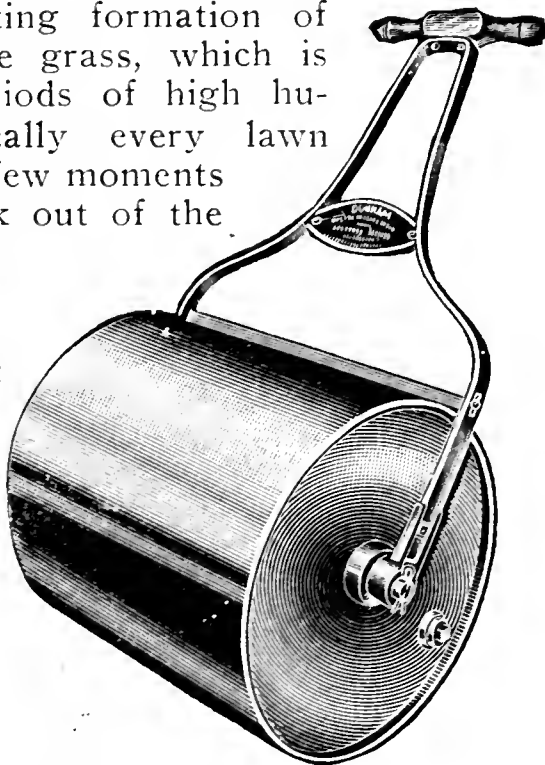
perfect grass trimming, protects mower blades from sticks, stones, etc. Eradicates weeds and crabgrass by preventing formation of seeds and aerates the grass, which is important during periods of high humidity. Fits practically every lawn mower—takes only a few moments to install. Folds back out of the way when not in use.



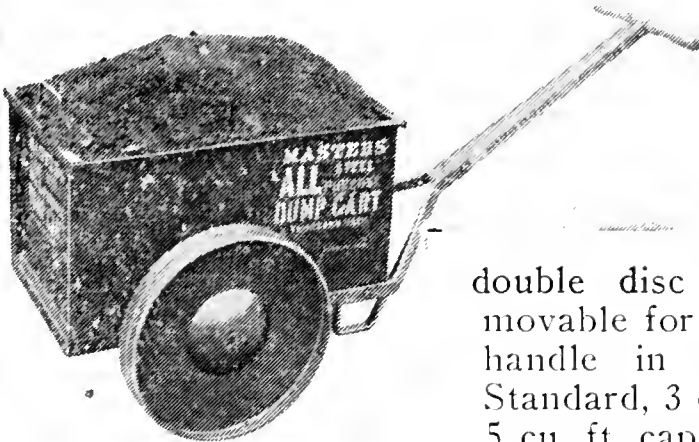
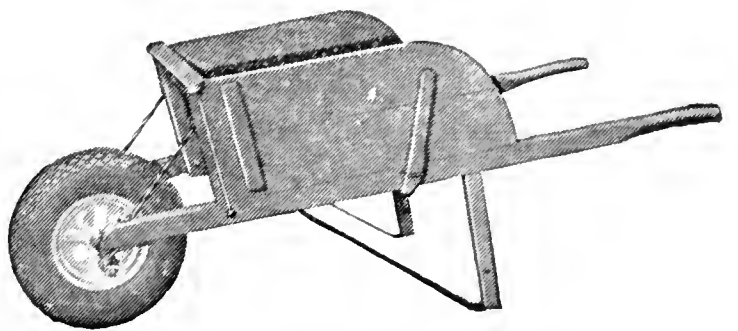
Dunham Waterweight Roller — Steel handles, roller bearings; rounded edges prevent damage to turf.

No.	Dia.	Len.	Price
5	18"	24"	\$13.50
7	24"	24"	15.95
9	24"	32"	18.95

In general the roller should be completely filled with water and an area rolled only once or twice. Heavy rolling compacts the soil to a greater depth whereas light rolling will over pack or even puddle the surface layer of soil if the area is gone over several times. A medium moisture content in the soil is desirable, a too wet soil tending to puddle easily and a too dry soil not responding to the weight of the roller.



Garden Wheelbarrow, De Luxe Special — Strongly constructed with body of wood; sides removable. Pneumatic tire makes possible handling larger loads more easily, especially on rough ground. Price, \$16.00.

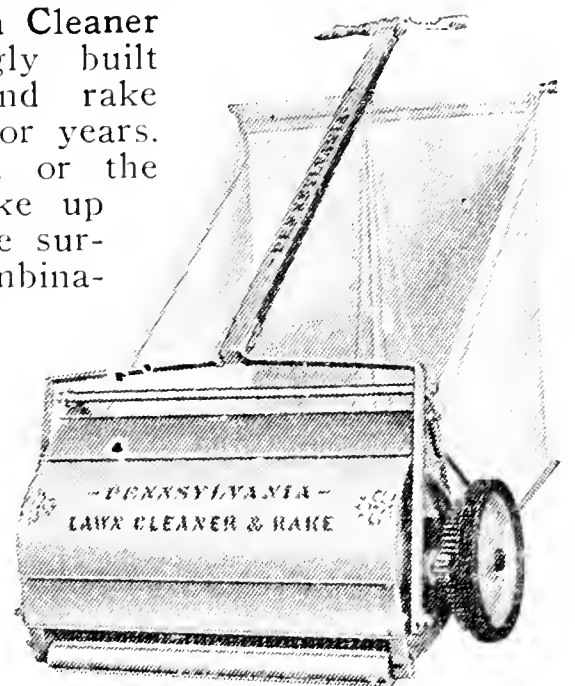


Masters All-Steel, All-Purpose Dump Cart — Strongly built cart for garden hauling. Welded steel body with

double disc wheels; end gate removable for easy dumping. Easy to handle in narrow places. Price, Standard, 3 cu. ft. cap., \$9.75; Large, 5 cu. ft. cap., \$12.00; Equipped with 4 inch pneumatic tires, add \$8.00.

Pennsylvania Lawn Cleaner

A really strongly built lawn cleaner and rake which will last for years. The metal teeth or the fiber brushes rake up everything on the surface and in combination with the vacuum created by the rapidly moving radial arms carry it to the basket. A time and labor saving machine. Rake type is more popular than brush type. 24" width only, \$35.00. Extra set rakes or brushes, \$8.00.



SPIKE DISC

The spike disc is a very efficient machine in lawn maintenance and construction. The spike disc should be used in preparing thin and bare areas for reseeding, thus usually eliminating the need for top dressing soil. The spike disc also pulverizes newly spaded areas quickly and thoroughly.

The main lawn areas should be spiked several times a year and the Spike Disc will be found a most important aid in growing grass under trees. No. 30, 18 in. spiking width, as shown, \$27.50.



No. 32 — 18 in., same as No. 30 with two handles, \$30.00. No. 25 — 14 in. spiking width, \$18.50. No. 22 — 10 in. spiking width,

\$15.00. No. 18, Power Mower Model, 22½", \$55.00.

GARDEN HOSE

Goodrich Garden Hose, the highest quality garden hose, is strongly constructed to stand abuse and give years of service. It is made of new, light resisting rubber which withstands summer sunshine. It costs but little more to obtain Goodrich quality.

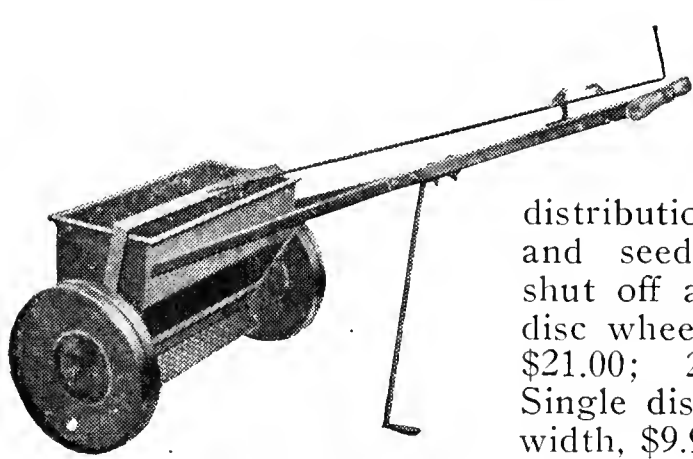
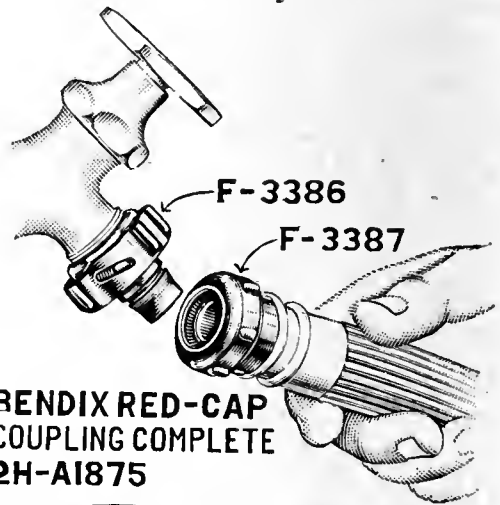


Garden Club—A light hose designed especially for the lady gardener. $\frac{5}{8}$ inch—50 ft., \$5.50; 100 ft., \$10.50. Green only.

Maxecon—Medium weight but sturdy and durable. Known as the 10 year hose. $\frac{5}{8}$ inch—50 ft., \$6.40; 100 ft., \$12.30; $\frac{3}{4}$ inch—50 ft., \$6.90; 100 ft., \$13.30. Green only.

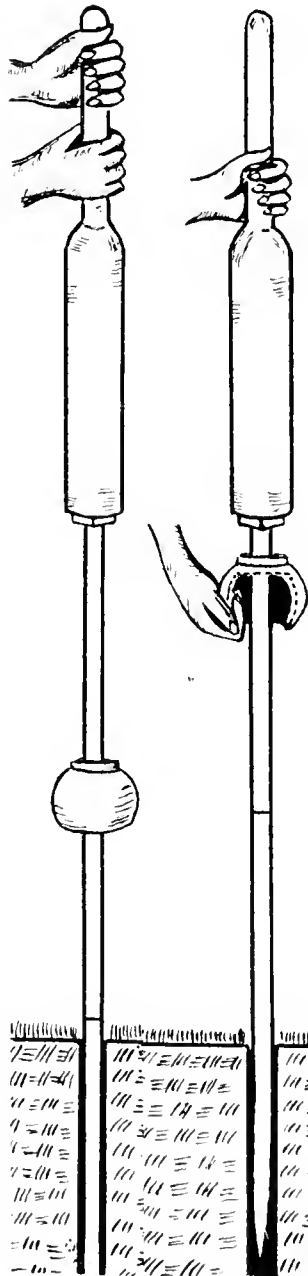
De Luxe—Estate Special. Made for years of hard usage on estate and golf course. $\frac{3}{4}$ inch—50 ft., \$10.75; 100 ft., \$21.00. Green only.

Bendix Red Cap Coupling—Rapid hose coupling, a snap and the hose is connected, a twist and it is off. Saves time and prevents kinking of hose. Guaranteed not to leak. Complete, 60c; hose end, 35c; faucet end, 25c.

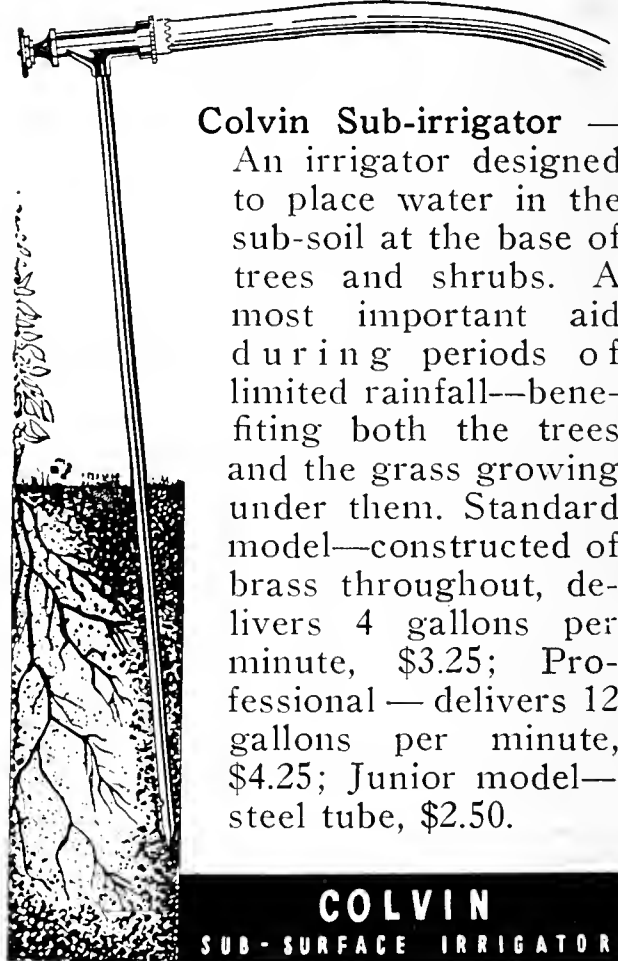
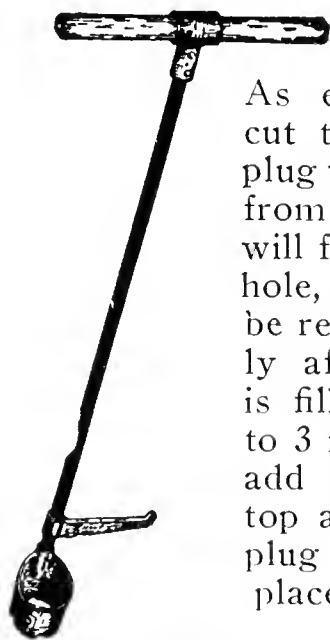


Permalawn Master Spreader—Strongly built spreader for the even and rapid distribution of plant food and seed. Regulator and shut off at handle. Double disc wheels—36 inch width, \$21.00; 24 inch, \$13.85; Single disc wheels—18 inch width, \$9.95; 16 inch, \$7.00.

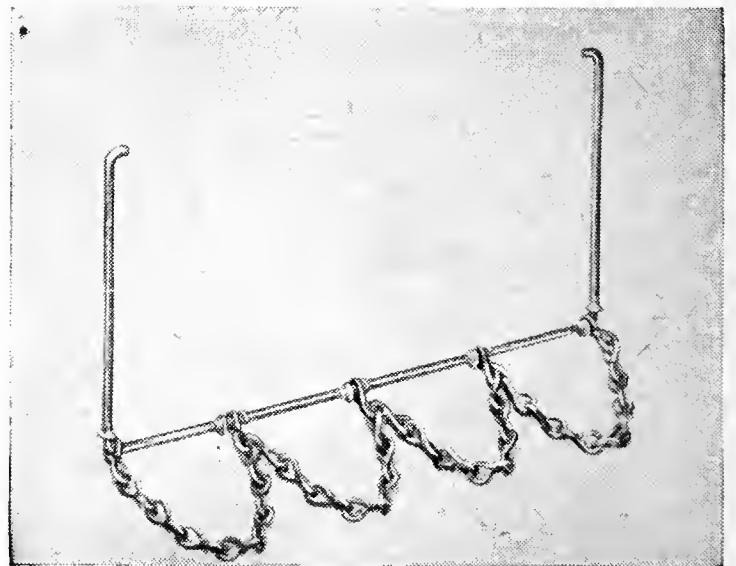
Adams Tree Feeding Bar—A valuable and most effective aid in tree feeding. The handle is a sliding hammer which drives the bar down with great force. In very hard soils a hole can be made with eight to ten strokes. Since the bar does not move up and down in the hole, much less effort and time is required for preparing holes. Price, \$15.00.



Hole-In-One Tool—Cuts sod plugs about $1\frac{3}{4}$ " in diameter. Cut tool into the turf with a twisting motion. As each plug is cut the preceding plug will be forced from the tool and will fall beside the hole, where it may be replaced quickly after the hole is filled. Fill hole to 3 inches of top, add loose soil to top and force sod plug back into place. Price, \$4.00.



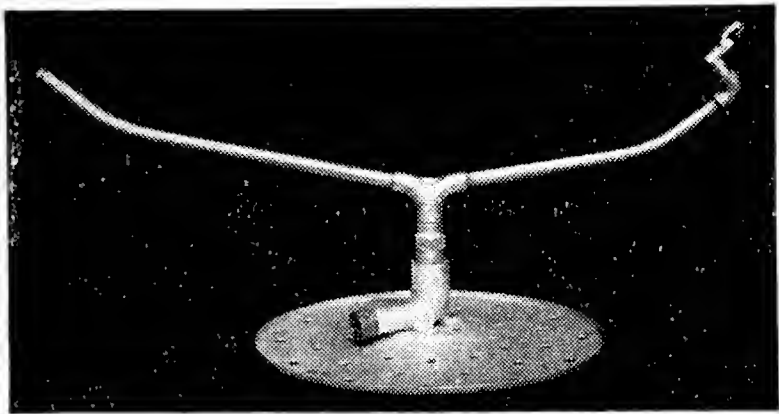
Colvin Sub-irrigator—An irrigator designed to place water in the sub-soil at the base of trees and shrubs. A most important aid during periods of limited rainfall—benefiting both the trees and the grass growing under them. Standard model—constructed of brass throughout, delivers 4 gallons per minute, \$3.25; Professional—delivers 12 gallons per minute, \$4.25; Junior model—steel tube, \$2.50.



Master Chain Attachment—Attaches to the Permalawn Master spreader to brush plant food from blades of grass. Simplifies the application of soluble plant food by eliminating the principal cause of "burn". For 18" spreader, \$1.00; 24", \$1.25; 36", \$1.50.

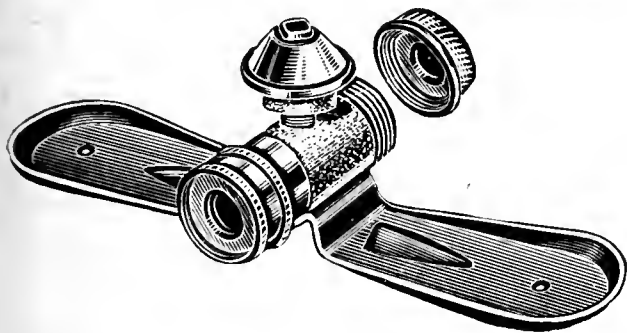
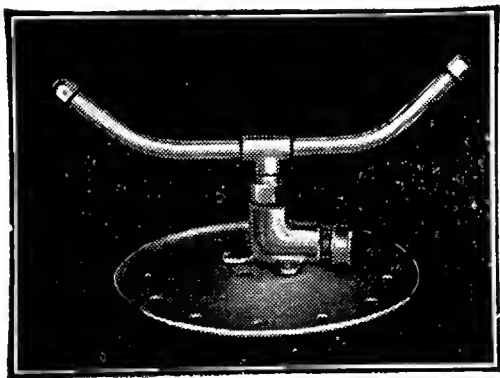
PERFECTION SPRINKLERS

Perfection Sprinklers are so simple in design and operation that they give years of service without wear or replacement. There are no gears to wear out and the revolving parts are cushioned with a film of water during operation. Perfection sprinklers give the largest coverage at the lowest cost and operate efficiently on very low pressure, giving service during dry periods when failure would be most damaging. The disc bases on Perfections permit them to be moved over the lawn from any angle without the slightest damage to the lawn.



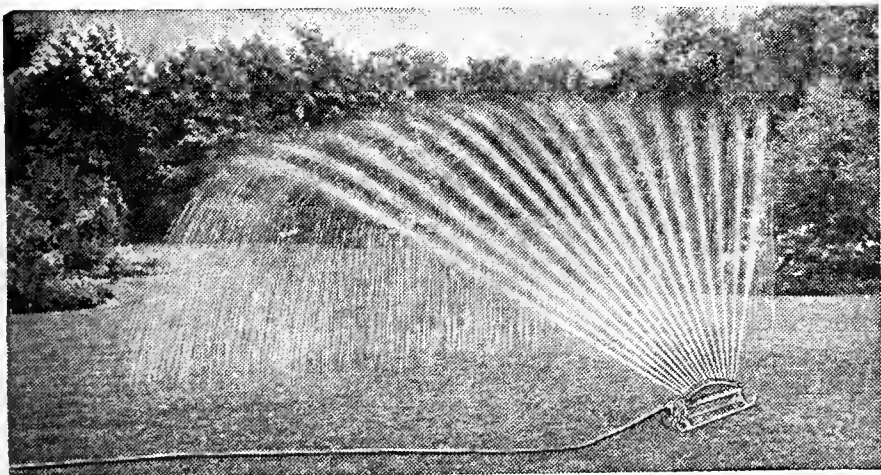
- No. Y-15, \$12.50. For $\frac{3}{4}$ " hose. Covers up to 110 ft. diameter at 35 lb. pressure.
 No. 112, \$10.50. Any hose size. Covers 85-100 ft. diameter at 20-35 lb. pressure.
 No. T-12, \$8.00. Covers 75-85 ft. diameter at 15-25 lb. pressure.
 No. T-9, \$7.50. Covers 65-75 ft. diameter at 10-25 lb. pressure.

- No. H D, \$4.50. Covers 20-50 ft. circle at pressures of 10-15 lb.
 No. H D., Jr., \$3.00. Covers 15-30 ft. circle at low pressure.

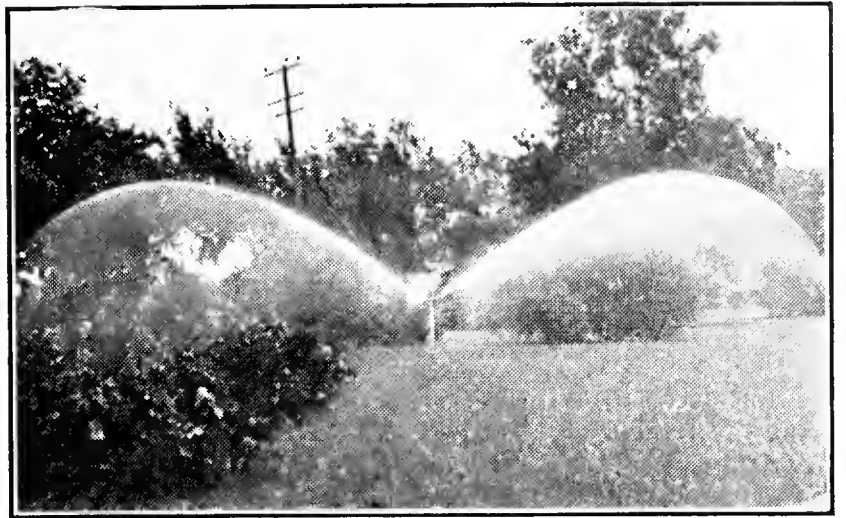


"Allen Square"
 Adjustable Multiple sprinklers distributing fine spray in square. Set 12 ft. apart there is no over-lapping. Adjustable.

to water pressure. Each, 90c, Doz., \$9.50.



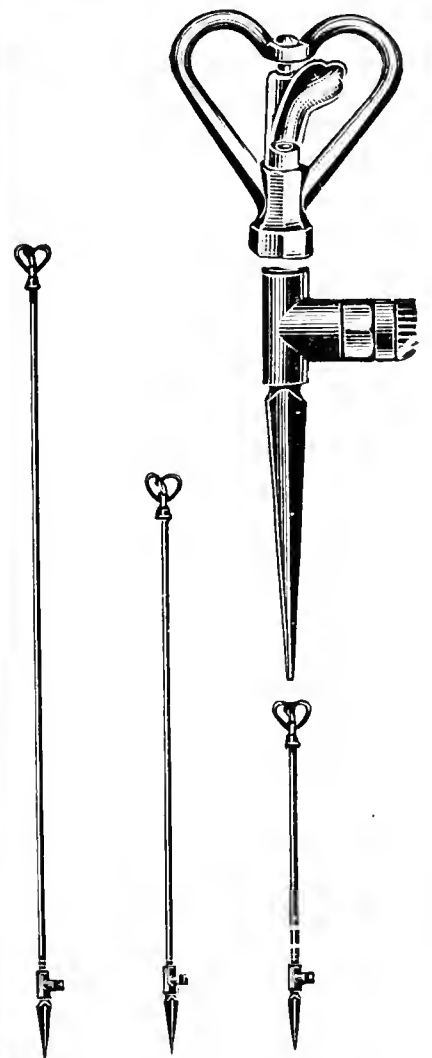
- Water Fan Oscillating Sprinkler**—2 ft. long. Sprinkles square area 40' x 40' at low pressure. Runner base will not injure lawn. Each, \$15.50.
Rain Wave—Sprinkles square area 50' x 50'. Each, \$35.00.



A Perfection Sprinkler in action, showing wide, even



No. GS, Garden Special, \$10.00. For gardens, shrubbery, etc. Covers 65-75 ft. diameter at 15-25 lb. pressure.

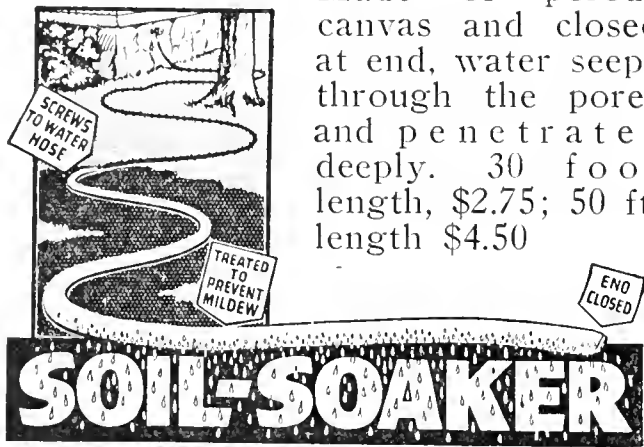


Hartford Sprinkler (Blake Heads). 4 ft. length, \$2.00; 6 ft. length, \$2.25. Blake Heads, each, 60c.

HOW TO SPRINKLE

The manner of sprinkling the lawn has much to do with its general condition. Sprinkling should be done only when needed to keep the grass from turning brown and then it should be thorough. Set the sprinklers for an hour or more in each location, depending upon the discharge capacity and the texture of the soil, until the soil is soaked to a depth of several inches. Generally it is not advisable to hand sprinkle the established lawn because the patience of the operator is usually too limited to permit the application of sufficient water and the development of shallow roots will result. After soaking the soil allow it to dry out to a depth of about $\frac{1}{2}$ inch before applying water again.

FOR TERRACE SLOPES AND PARKWAYS
IT REALLY SOAKS THE SOIL

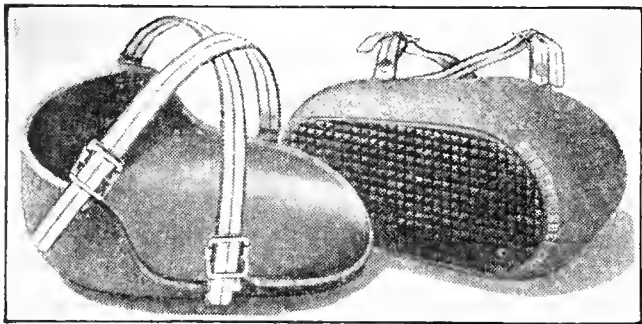


Made of porous canvas and closed at end, water seeps through the pores and penetrates deeply. 30 foot length, \$2.75; 50 ft. length \$4.50

Waterwand—Water flowers, rose bushes, etc., without wetting the foliage. The Waterwand is a valuable aid in watering plants in benches and borders. Water roses without scratching hands and reach difficult places. Waterwand releases water in a steady, gentle flow at base of plants. 52 inches long. Each, \$2.50.



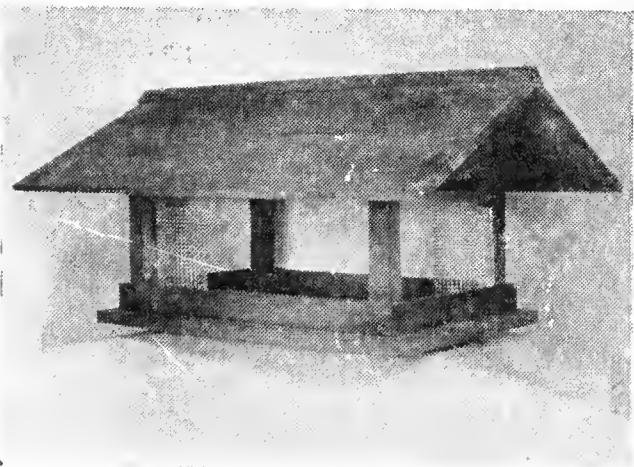
Eezy Wear Gloves—Made of imported leather, soft, comfortable, sift proof; washable and durable. Ladies' sizes, "small", "medium", "large". Men's sizes "medium" and "large". Pair, 75c.



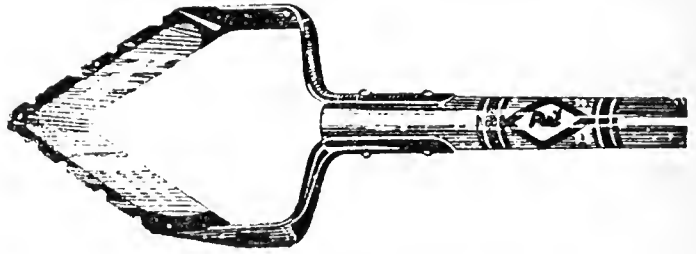
Rubber Knee Pads. Made of solid and soft sponge rubber. Protect the knees against moisture and out wear several pairs of leather pads.

Adjustable straps prevent slipping down while walking. Pair, \$1.50.

Wild Bird Feeding Shelters—Well built and attractive. 20% discount from price shown. No. FS21 Double Weather vane. Stained brown, \$5.00

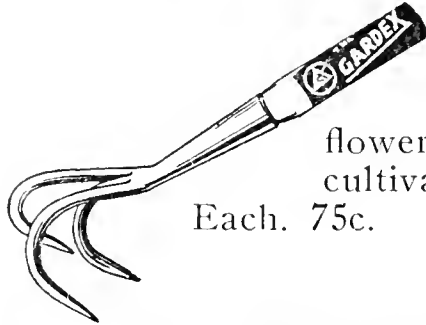


Same but with glass back, \$7.50. No. FS22 Stationary type. \$5.00. No. 4 Robin Roost—nesting shelter for Robins. Stained brown. \$1.25



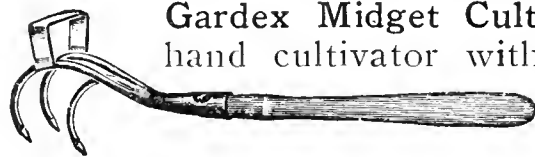
Diamond Point Hoe—The perfect push hoe. Has many other uses and permits

much more rapid and easier weeding and cultivation close to plants. Easy to use in beds and shrubs. Each \$1.50.



Gardex Cultivator, 3 prong. A most efficient cultivator tool for the flower bed and border. Makes cultivation of shrubbery easy.

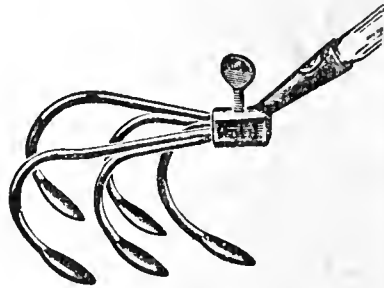
Each. 75c.



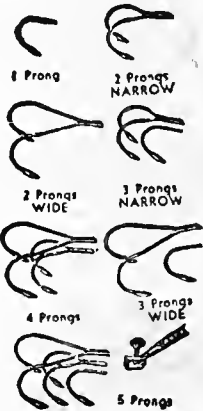
Gardex Midget Cultivator. An excellent hand cultivator with narrow weeder attachment. Each, \$1.00.

GARDEX SOIL FLOW TOOLS

7 Tool Cultivator. An effective new type cultivator which can be changed from 5 to 1 prong by loosening wing screw and removing prongs not needed. Seven combinations possible. No wrench needed and no bolts to loosen. Price, complete, \$1.35.

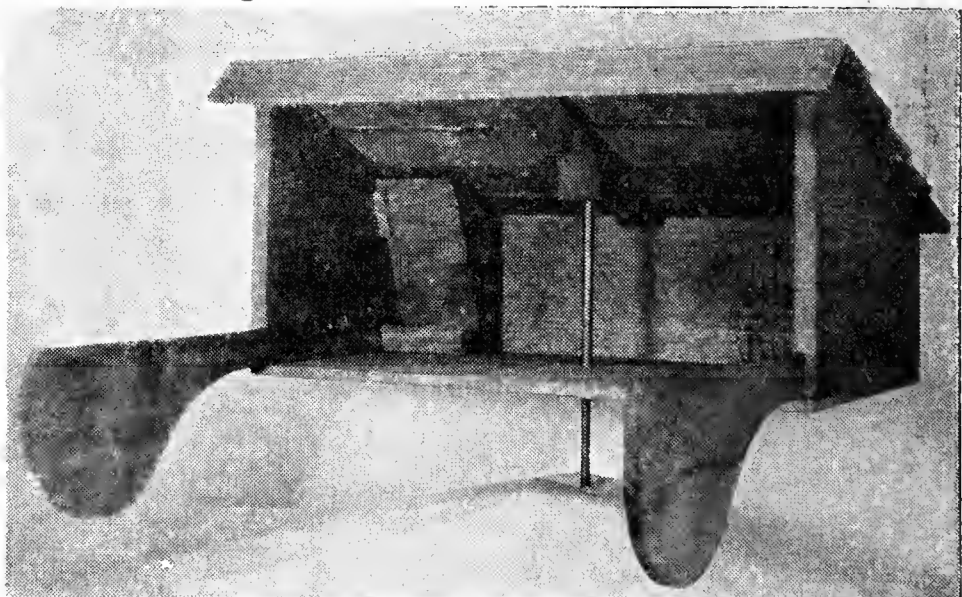


Garden Pull Hoe—V shaped blade penetrates easily, weeding and cultivating in one operation. Leaves soil level. Much easier than the chopping type of hoe. Complete, \$1.25.



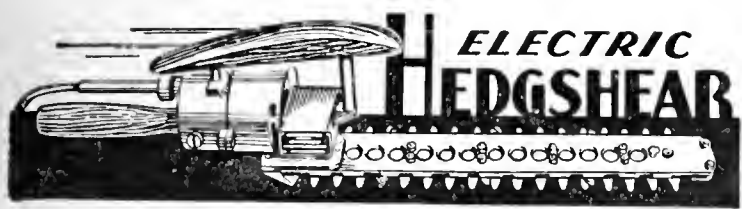
Asparagus Knife—Excellent

for digging dandelions and other weeds. 16 inch length, 50c.



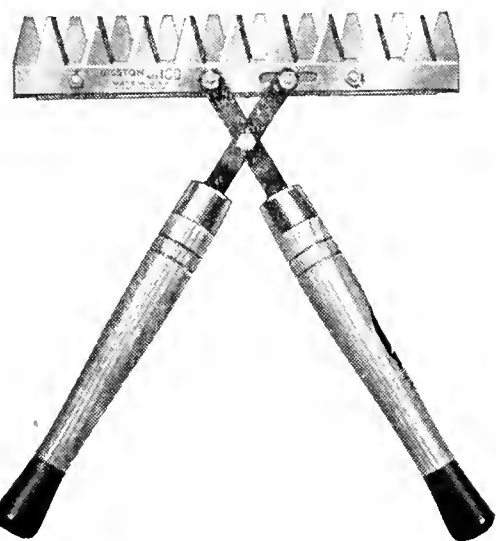
SHEARS

HEDGE SHEARS

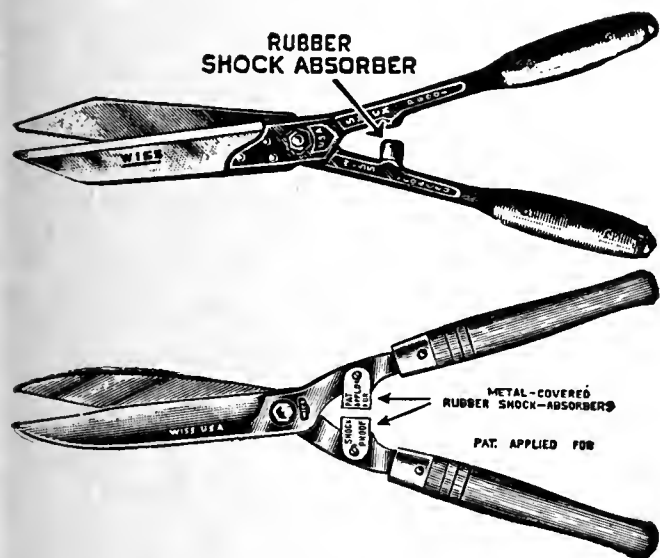


Electric Hedgeshear—A high speed sickle type electric hedge trimmer, in which the conventional sickle is replaced by an endless chain bearing special cutting teeth. Cuts on both edges of bar. More powerful, quieter, vibrationless, and will not clog. Weighs less than 6 pounds and all weight is balanced under the hand. Price,—\$29.50.

Simplicity Hedge Trimmer—A rapid hand trimmer; 12 inch width with plain teeth, \$4.50;; 16 inch, notched teeth, \$5.50.

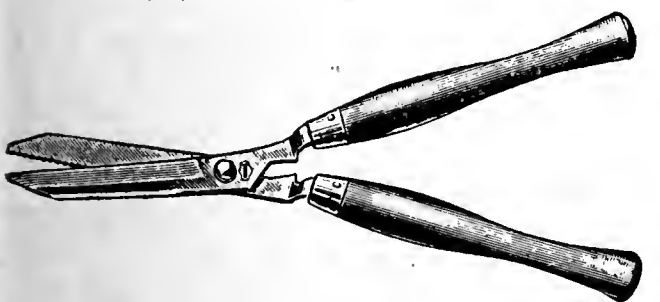


Wiss All Steel—Patented shock absorber eliminates noise and jar from trimming. Well balanced shears with blades of fine cutting steel; one blade serrated. 9 inch blade, \$3.50. (See below.)



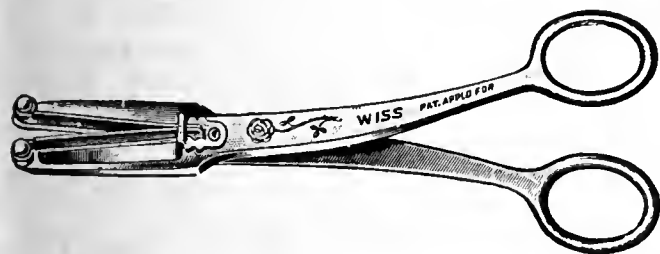
Wiss English Pattern Shock-Proof Shear—A new style of light hedge shear with improved metal covered shock absorbers. Blades of finest steel

and handles of non-splitting wood. 8½ inch blades, \$3.10.



Wiss Ladies Model—Full-forged steel, hardened and tempered. Light weight.

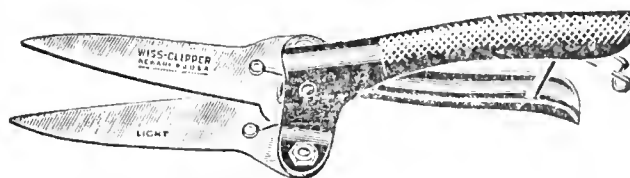
Length of blade, 6½ inches. Each, \$1.65.



Flower-Holder Shears—Cut and hold roses and other flowers direct from

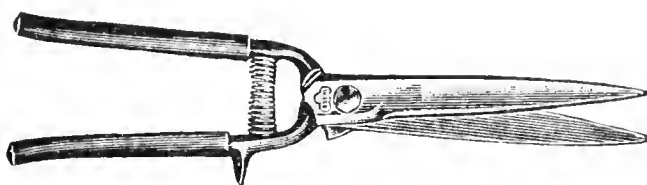
bush without crushing stems. Heavy nickle finish. Each, \$1.50.

GRASS SHEARS



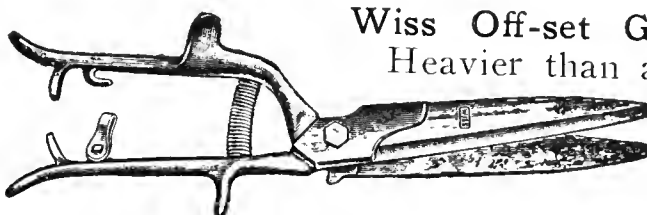
Wiss Clipper Shears—A better made,

more durable shear of the clipper design, Narrow blades, braced and bolted for greater strength. Equipped with adjusting nuts and swinging shackle, permitting blades to be sharpened. 12 inch, \$1.25.



Wiss Full Forged Grass Shear—The only

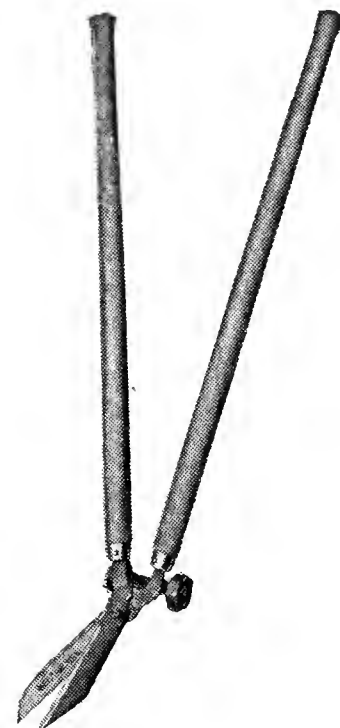
full forged grass shear made. Drop forged from cutlery steel, practically unbreakable. Handles rubber covered for more comfortable operation. 12 inch, \$1.50.



Wiss Off-set Grass Shear—Heavier than above. Hollow

ground cutlery steel blades.

Handle off-set to prevent striking knuckles on walls or pavement. 12½ inch, \$1.50.



Grass Whip—A long handled grass and weed cutter for use on borders and among shrubs. Swing like

a golf club. Made of fine steel, blade sharpened on both edges. Each, \$1.25.

Disston Border Shears—A nine inch hedge shear mounted on 2-wheel carriage. Handles 36 inches. Makes border trimming easy and rapid. Each, \$4.90.

No. 3 Grass Hook—Small hand scythe with offset handle which prevents bruising hand. Blade of polished steel.



Each, 75c.

All-Aluminum Trowel and Transplanting Tool—50c each.

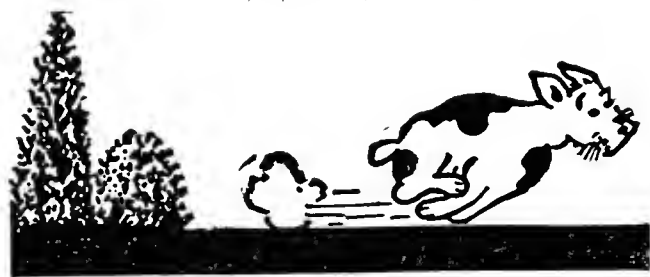


PLANT HORMONES

Auxilin (Indolebutyric Acid)—Makes cuttings root more quickly and surely. No. 1, (700 cuttings), 50c; No. 2, (2000 cuttings), \$1.00; No. 3, (14000 cuttings), \$6.00.

Hormodin—Root developer used in rooting cuttings of numerous plants. Complete directions with each bottle. 20 units (for 500 cuttings), \$1.00; 60 units, \$2.00; 240 units, \$7.00.

Rootone—Plant hormone powder. Dip end of cuttings in powder and plant. Eliminates soaking. 2 oz. bottle, \$1.00; 1 lb. can \$5.00.



DOGSKAT

Dogskat — Repellent for dogs and cats when sprayed under and around shrubs and evergreens. Non-poisonous.

Dog Skat (liquid spray)—Stops dog injury to lawns, Evergreens, trees. Bottle, 25c.

Dog Skat (tubes)—Keeps dogs away from trees. Hang in Evergreen clumps. Each, 25c.

FOR TENNIS COURTS

Calcium Chloride—Dowflake is an unusually pure grade of calcium chloride and is recommended for settling dust of drives, tennis courts, etc. Keeps weeds under control and melts ice and snow in the winter time. Improves cement mixtures. Packed in water proof bags; 100 lbs., \$2.75.

Klor-Kal—A high grade calcium chloride packed in water proof 10 lb. bags. More economical than larger sizes where small amounts are needed. Klor-Kal is offered to the **tree surgeon** to prevent freezing of cavity cement mixture and to improve the ultimate strength of the concrete. 10 lb. bag, 90c; case of 6, \$5.00.



WEED KILLERS

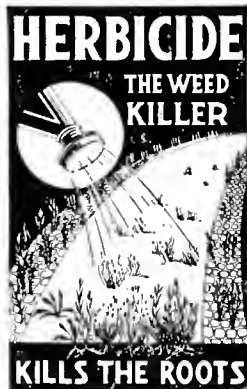
Arsenic Acid—For dandelion control. 185 lb. carboy at 15c per lb.

Atlacide—For the destruction of all weeds and grass in drives and tennis courts. 5 lbs., \$1.50; 15 lbs. (for 1500 sq. ft.), \$2.75; 50 lbs., \$7.00; 100 lbs., \$12.50. (cost per 1000 sq. ft., \$1.80).

Copperas—(See Ferrous Sulfate under Fertilizers). Dust on weeds or mix 1½ lbs. per gal. of water and spray on 100 sq. ft.

Herbicide—Destroys ordinary grass and weeds; dilute one gallon to 40 or 50 gallons of water and apply on 2500 sq. ft. Qt. can, 50c; gal. can, \$1.50; 5 gal. can, \$6.00.

Meo 181—New weed killer for dandelions, plantain, and other broad leaved plants. Turns grass brown for 4 to 6 weeks. Use 5 gals, per 1000 sq. ft. 1 gal., \$1.55; 5 gals., \$7.25. (cost per 1000 sq. ft., \$7.25).



Furfeck—Chickweed Eliminator. One gallon will treat about 2500 sq. ft. Gallon, \$2.00; 5 gal., \$8.00.

Sodium Chlorate—For crab grass control. Instructions sent with order. Specify area involved. 100 lb. drums, \$14.00.

Control Chickweed

Lead arsenate powder is an effective control for chickweed as well as grubs and earthworms in the soil. Ask for instructions.



VITAMIN B-1 PURE CRYSTALLINE POWDER PRODUCES AMAZING REINVIGORATED ROOT GROWTH!

... Cattleya blooms twice normal size ... 5-inch tea rose buds ... Cottage tulips with 30-inch stems Hyacinths with flower heads over 12 inches long... Snapdragons, 6½ feet tall ... Birds of Paradise with 16 huge flowers ... Daffodils bigger than a salad plate on a 42-inch stalk thicker than a man's thumb ... Roses transplanted while flowering ... Annuals, perennials and shrubs transplanted without soil on roots ... Root-rot stopped in valuable trees ...

100 mgm;
1/10 gram

1.00

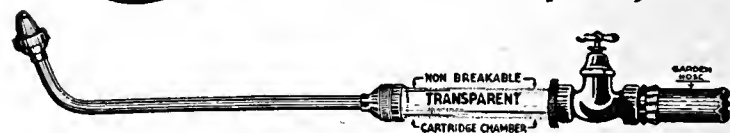
Makes 2000 gallons of solution; enough for a season in the average garden.



Vitamin B-1—Prevents **Root Shock** in Transplanting. Restores Sick and Straggly Plants to Health. Enables Plants to Make Better Use of Fertilizers.

1/10 gram, \$1.00; ½ gram, \$4.00; 1 gram, \$7.00.

The Simplex Garden Hose Sprayer



Simplex Garden Hose Sprayer—Strongly constructed sprayer with 10 year guarantee. Simplex sprayers can be converted into subsoil irrigators by addition of extension and irrigator point. No. 2., metal chamber, \$3.00; No. 3., Transparent chamber, illustrated, \$4.00; No. 4., Transparent chamber and automatic shut off valve, \$5.00. Extension, 50c; irrigator point, 25c; Cartridges: Nicostick and Pyrostick, each 35c; 3 for \$1.00; Sulfostick, each, 30c; 4 for \$1.00.

Stickate—An effective material for waterproofing concrete surfaces. Has many other important uses. 1 gal., \$1.25; case of 6, \$6.50.

MISCELLANEOUS SUPPLIES

Colored Rafia—Highest quality imported rafia dyed green to blend with plants. Strong and durable. it is the best material to use for tying plants to stakes or supports. Easily clipped at end of season. 2 oz. bunch, 25c; 1 lb., 80c.



'TWIST-EMS' —Dark green strong tapes with wire reinforcing that make perfect plant ties. Packed in boxes to be carried in the pocket. No tying, no knots. 8 inch, box of 125, 25c; 4 inch, box of 250, 25c.

Plant Markers, Brandt's All Metal—Made of special zinc alloy which will not rust or corrode. Special writing fluid makes permanent marker. B-200 writing fluid, 15c; B-201 label and holder, 3 for 10c; B-202 large holder, 5c each; B-203 small holder, 3 for 10c; B-204 small insert, 8 for 5c; B-205 large insert, 6 for 5c; B-206 small wired tag, 4 for 5c; B-207 large wired tag, 3 for 5c; B-208 special pen point, 5c; B-209 special pen holder, 5c.

Hotkaps—

To protect young plants from frost and trans-



plants from drying out. **Home Package**, includes 100 Hotkaps, Setter, and Tamper, \$2.65; **Trial Package**, includes 250 Hotkaps, Setter and Tamper, \$3.85; 1000 Hotkaps, \$10.25.

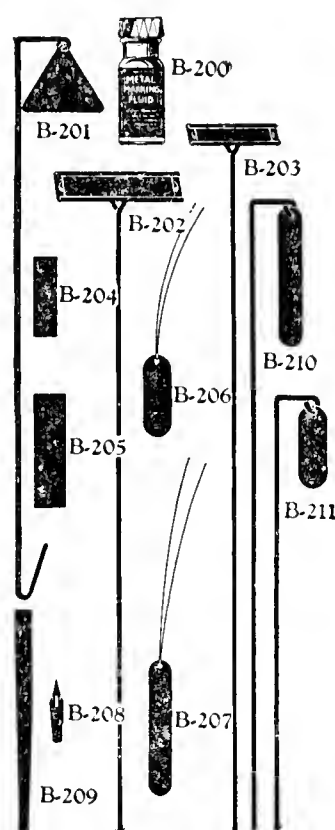
Plant Stakes—Bamboo, painted green, per 100, 2 ft., \$1.00; 2 ft., \$1.35; 4 ft., \$1.65; 5 ft., natural heavy tonkin, doz., \$1.10; 6 ft. Dahlia stakes of California Redwood, 1¼" square, rounded corners, durable, long lasting, natural color, doz., \$1.50; 100, \$10.00; 6 ft. Cypress Dahlia Stakes 7c each.

Plant Labels—Wooden, clear paint, for pots. 4 inch, 100, 45c; 1000, \$2.10; 5 inch, 100, 50c; 1000, \$2.75; 6 inch, 100, 55c; 1000, \$3.25; 12 inch, 100, \$1.45; 1000, \$12.50.

Wooden, clear painted, copper wired. Small, doz., 25c; 100, \$1.75; Large, doz., 35c; 100, \$2.35.

Neponset Plant Boxes—Hold 12 plants, each 20c; doz., \$1.60; 100, \$10.95.

Neponset Paper Pots—2½ inch, doz., 17c; 100, 75c; 4 inch, doz., 28c; 100, \$1.45; 6 inch, doz., 40c; 100, \$2.75.



Hotkaps

MATERIALS FOR DAHLIA HOUSES

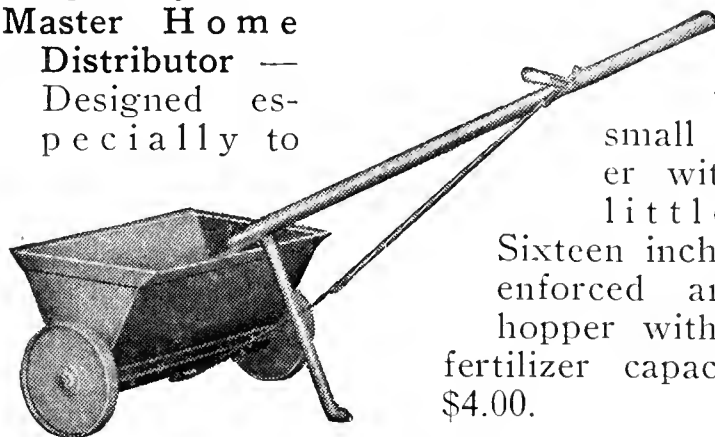
Galvanized Wire Screen—18 mesh wire for the construction of durable dahlia and aster houses. 36 inch and 48 inch widths. Per square yard. 35c; per 100 square ft., \$3.75.

Commercial Cloth—Double galvanized wire cloth of special mesh. More resistant to rust than ordinary galvanized wire cloth and longer lasting. 48 inch width only. Per square yd., 50c; per 100 square ft., \$5.00.

Houses are usually made about 8 feet high of two 48 inch widths of screen.

Cloth for Dahlia Houses—9 ft. widths, 10c per square yard.

Master Home Distributor —
Designed especially to



provide the small home owner with a good, little machine. Sixteen inch width, reinforced and welded hopper with 20 pound fertilizer capacity. Each, \$4.00.

Suggestions for Ordering

In ordering please give name of item, quantity, and prices. On flower seeds it is sufficient to give the number instead of the name. An order blank is enclosed for convenience in ordering and another will be sent with acknowledgement of order.

Payment

Except for established accounts, orders should be accompanied by check or money order. Otherwise shipment will be made C.O.D. and the fee included in the charge. The prices shown do not include Illinois Occupation tax, for which add 3 percent to total amount of order for goods to be delivered in Illinois.

Shipping

All shipments will be made by most economical means, unless instructed otherwise. Deliveries by truck will be made promptly in accordance with the regular schedule of the trucking concern employed unless a rush delivery is specified.

All prices shown include delivery except as noted for some fertilizers on page 4, but do not include charges necessary for special delivery services.

Disclaimer

We make every possible effort to supply seeds of only the highest quality in every respect. However, because of factors beyond our control after seeds leave our warehouse, we, in common with all other American seed houses, make all sales subject to the seedman's disclaimer as follows:

Caldwell Seed & Supply Company gives no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of any seeds it sells, and will not be responsible for the crop; and it gives no warranty, expressed or implied, as to fertilizers, other than in respect to analyses or other data expressly and lawfully required of the seller by statutes.

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CALDWELL SEED AND SUPPLY COMPANY

1618-20 Payne St.

Evanston, Illinois

To Caldwell Seed and Supply Co. 1618-22 Payne Street
Evanston, Illinois

In making your order, please give the sizes and prices to avoid delay and errors.

Carried Forward,

3

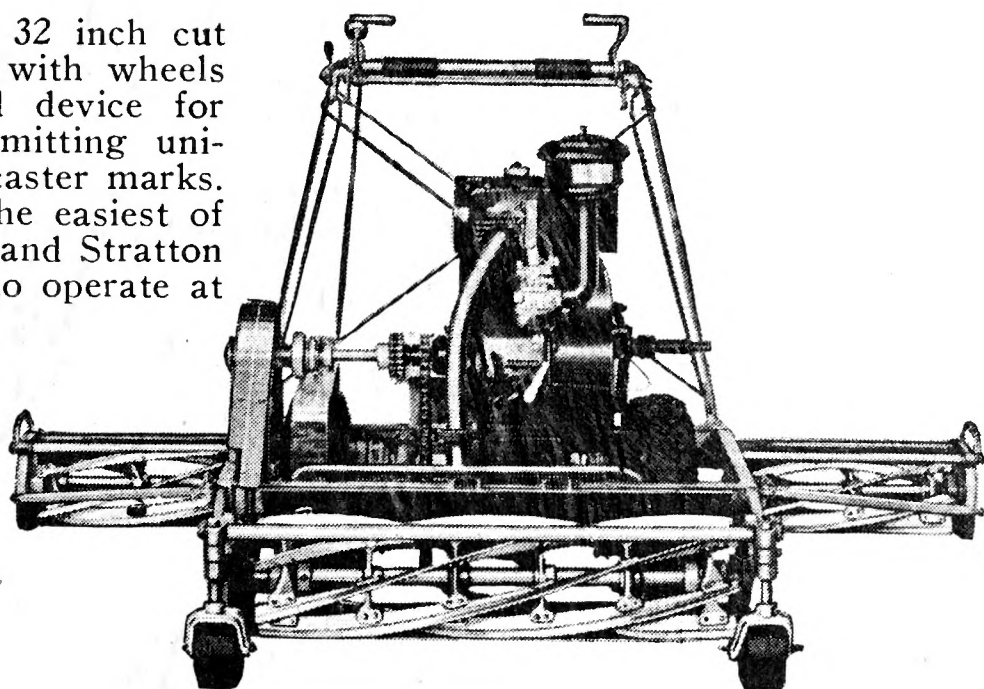
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CAREFUL BUYERS SELECT MOTO-MOWERS

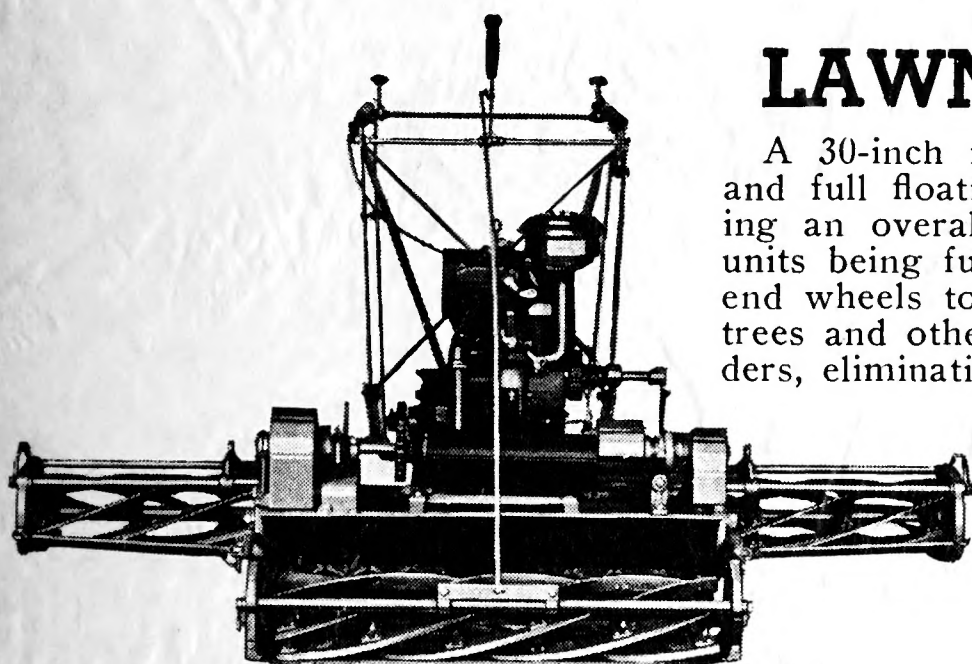
FLEETWAY

A powerful 32 inch cut wheel mower with wheels rearward of cutting unit and patented device for lifting grass behind caster wheels, permitting uniformly mowed lawn, without streaks or caster marks. Twist of the wrist guiding makes this the easiest of operation possible. The $2\frac{3}{4}$ H.P. Briggs and Stratton engine delivers an abundance of power to operate at high speed with side units, trailer units, roller, snow plow, lawn or road sweeper, or other equipment available. Price, \$405.00 delivered. With full floating, power driven side units (72 inch total cut), \$668.00. Lighter model available in the Commander at \$353.00.



LAWNMASTER TRIPLEX

A 30-inch roller type mower with full floating reel, and full floating, power driven side cutting units, giving an overall cutting width of 72 inches. All three units being fully floating there are no caster wheels or end wheels to mark the lawn. Cuts within 2 inches of trees and other plants and over edges of beds and borders, eliminating most hand trimming. Guides so easily and quickly that it can be operated with one hand. Embodies the simple design of all Moto-mowers, requiring less time for oiling and proper maintenance and will give years of trouble-free service. Powered with Briggs and Stratton engine. The side units are quickly and easily removable, or may



CITY MODEL

Where a medium sized power mower is desired the City Model has proven a splendid machine. Possessing "Twist of the Wrist" guiding and automatic engine control, the City Model embodies more "big" mower features than any other power mower in this price field. The Briggs and Stratton engine delivers an abundance of power for fast, heavy cutting. The simple sturdy design, and high quality construction have earned for the City Model a reputation for enduring service and make it an ideal mower for the smaller estate. 22 inch cutting width. With slip-on rubber tires, \$185.00.

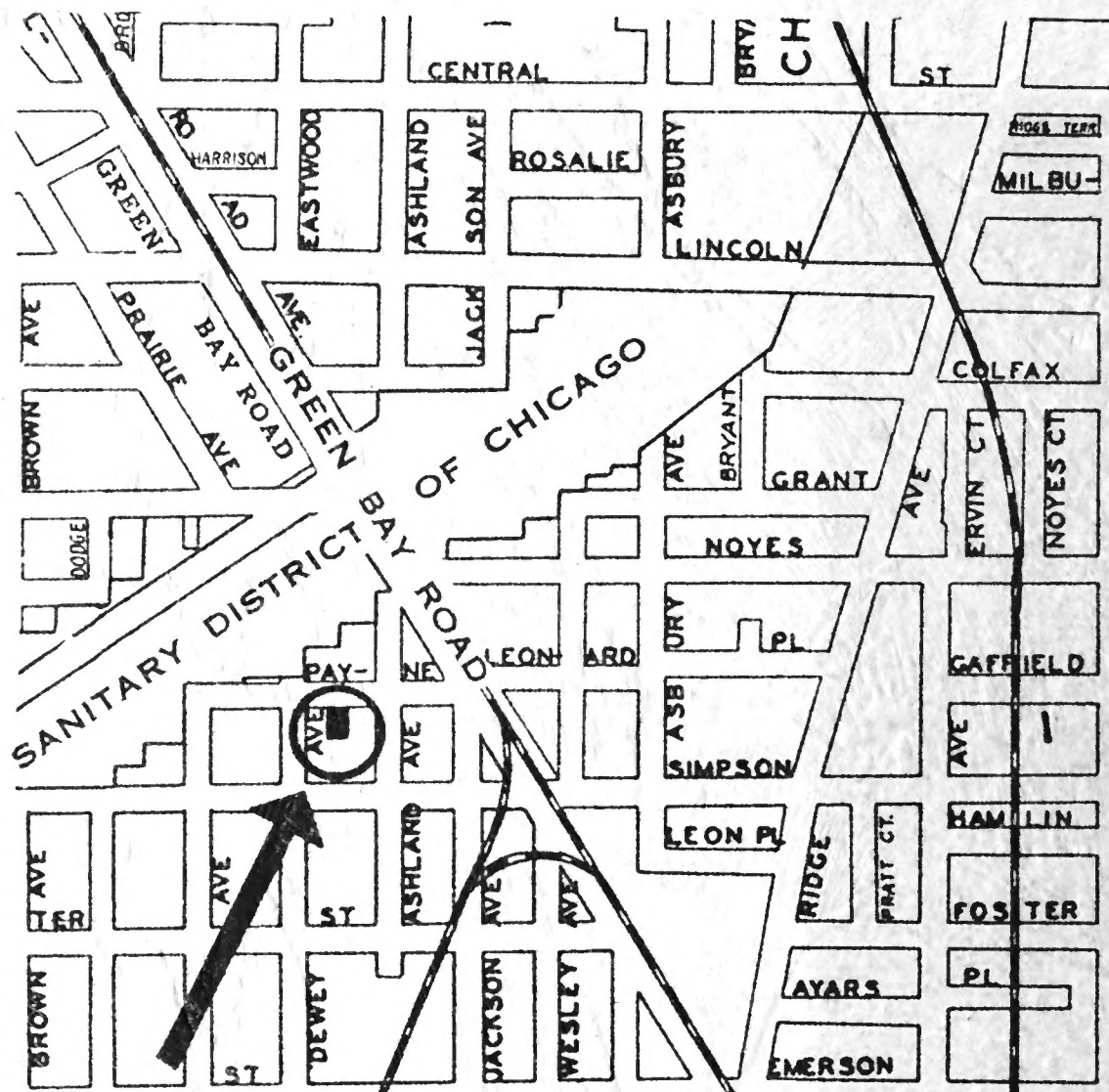


COMPLETE CATALOG ON REQUEST

★ MOTO-MOWERS

AS NEW AS TOMORROW

WHERE WE ARE!



There Better Lawns and Gardens Are For Sale.

Our large warehouse and display room are located in the PAYNE STREET industrial section of Evanston. Payne Street runs west from Green Bay Rd. (Railroad Ave.) at 2100 north or $1\frac{1}{2}$ blocks south of the Sanitary District Canal bridge. Removed from the main business section, we have no traffic or parking problems and are easily accessible from any direction.